

**TOWN OF WATERTOWN  
WATERTOWN, CONNECTICUT**

**NOTICE OF BID**

**Oak Drive Sanitary Sewer Installation  
Watertown Water and Sewer Authority**

Sealed bids are invited and will be received by the Purchasing Agent of the Town of Watertown at the office of the Purchasing Agent, Watertown Town Hall, 61 Echo Lake Road, Watertown, Connecticut, until **11:00 a.m., Wednesday, August 24, 2022**, at which time and place they will be publicly opened and read aloud for furnishing all labor, materials and equipment to complete the Oak Drive Sanitary Sewer Installation project to the Town of Watertown Water and Sewer Authority.

The Information for Bidders, Form of Bid, Specifications and other contract documents may be obtained or examined at the office of the Purchasing Agent, Watertown Town Hall, 61 Echo Lake Road, Watertown, Connecticut 06795 or by accessing the Town of Watertown's website at <http://www.watertownct.org>.

To receive consideration, bids must be in the hands of the Purchasing Agent or the authorized representative no later than the day and hour mentioned above. Proposals must be submitted on the forms provided and in a sealed envelope plainly marked "**Bid – Oak Drive Sanitary Sewer Installation**".

The Purchasing Agent reserves the right to accept or reject any or all bids; to waive any informality; or to accept any bid deemed in the best interests of the Town of Watertown.

The Town of Watertown reserves the right to take into account the residency of bidders within the Town of Watertown and/or the location of the bidder's business within the Town of Watertown in awarding this bid.

All bidders are invited to attend a Pre-Bid meeting for the purpose of viewing the proposed scope of services required, and obtaining information relating to the proposed project. The meeting is scheduled for **10:00 a.m., Thursday, August 4, 2022**, at the Water & Sewer Authority Office, 747 French Street, Oakville, CT 06779. No additional viewing appointments will be scheduled.

All bids will be considered valid for a period of sixty (60) days.

Donna L. Ford  
Purchasing Agent  
Town of Watertown

## **INFORMATION FOR BIDDERS**

### **TOWN OF WATERTOWN**

**WATERTOWN, CONNECTICUT 06795  
Oak Drive Sanitary Sewer Installation**

**Watertown Water and Sewer Authority**

**BID OPENING: 11:00 a.m., Wednesday, August 24, 2022**

#### *PROPOSALS RECEIVED*

All bids must be in a sealed envelope and received prior to **11:00 a.m., Wednesday, August 24, 2022**, at the office of the Purchasing Agent, Watertown Town Hall 61 Echo Lake Road, Watertown, Connecticut 06795.

#### *PREPARATION OF PROPOSALS*

Proposals must be made upon forms contained herein. The blank spaces in the Proposal must be filled in correctly where indicated. The Bidder must state the prices for which he proposes to do each item of the work contemplated. In case of discrepancy where both words and the numerals are requested, the words shall govern. Ditto marks are not considered writing or printing and shall not be used. The Bidder shall sign his Proposal correctly. If the Proposal is made by an individual, his name, post office address and telephone number must be shown. If made by a firm, partnership, or corporation, the Proposal must be signed by an official of the firm, partnership, or corporation authorized to sign contracts, and must show the post office address and telephone number of the firm, partnership, or corporation. Failure to do so may disqualify the bid.

Each bid must be submitted in a sealed envelope bearing on the outside the name of the Bidder, post office address, and name of the project for which the bid is submitted. If forwarded by mail, the sealed envelope containing the bid must be enclosed in another envelope addressed to: The Purchasing Agent, Town Hall Annex, 424 Main Street, Watertown, CT 06795.

All information shall be entered in ink or by typewriter. Mistakes may be crossed out and corrections inserted before submission of your bid. The person signing the bid shall initial corrections in ink.

Corrections and/or modifications received after the closing time specified will not be accepted.

#### *SUBMISSION OF PROPOSALS*

All proposals and literature shall be submitted **IN DUPLICATE** on the proposal form, which is a part of these specifications.

Descriptive literature containing complete specifications must accompany each bid. If a bidder wishes to furnish additional information, more sheets may be added.

Adobe Acrobat® Reader is required to view electronic documents on-line. If you do not have Adobe Acrobat® Reader, you may download it for free from Adobe at <http://www.adobe.com/products/acrobat/readstep.html>.

Response summaries will be available online at <http://www.watertownct.org> on the day of the bid opening.

Responses delivered via fax are received subject to the following qualifications and limitations:

- The Town is not responsible for the confidentiality of the information transmitted.
- The Town cannot guarantee that its fax equipment will be operational and able to receive transmittals by a particular time and date. It is the Bidder's responsibility to ensure that quotations are received in their entirety and on time at the required location. It is recommended that vendors be advised to call immediately after transmitting a document electronically to confirm complete and accurate receipt by the Town. The

Town assumes no liability in the event that a bidder's electronic transmission is not received by the Town in a timely fashion, or is not received either in its entirety or error-free.

- Bids transmitted electronically which have a bond requirement are subject to the same submittal requirements as those responses delivered via traditional means, such as mail or hand delivery, or as otherwise stipulated by appropriate authority.

### *INCURRING COSTS*

The Town of Watertown is not liable for any cost incurred for the preparation of proposals or submission of samples by the firms submitting proposals for the work requested in this bid document or request for proposals.

### *FAMILIARITY WITH THE WORK*

Each bidder is considered to have examined the work to fully acquaint him/herself with the exact existing conditions relating to the work and has fully informed himself as to the work involved and the difficulties and restrictions attending the performance of this bid. Failure to do so will not relieve a bidder of his obligation to furnish all labor, material and equipment necessary to carry out the work for the consideration set forth in this bid. The submission of a bid will be considered as conclusive evidence that the bidder has made such examination.

Where exploration or inspection data is shown on the Plans and/or specifications or made available to the Bidder, it is understood that such data were obtained in the usual manner and with reasonable care and are to be interpreted and used as the Bidder sees fit. There is no expressed or implied agreement that the data has been correctly indicated, and the Bidder is cautioned to take into account that conditions affecting the work may differ from those indicated.

The Owner assumes no responsibility whatsoever with respect to ascertaining for the Contractor such facts concerning physical characteristics relating to this project. The Bidder agrees that he shall make no claim for and has no right to additional payment or extension of time for completion of the work, or any other concession, because of any interpretations or misunderstanding on his part of this bid, or because of any failure on his part to fully acquaint himself with all conditions relating to the work. Permission for making borings, test pits, destructive tests or other investigations of subsurface conditions will be arranged for by the bidder upon receipt of a written approval by the Town.

### *CONSIDERATION OF PRIOR SERVICE*

Previous performance, quality of service and merchandise will be considered.

### *ADDENDA AND INTERPRETATIONS & ALTERNATE PROPOSALS*

Addenda information will be available online at <http://www.watertownct.org>. Adobe Acrobat® Reader may be required to view this document. It is strongly suggested that Bidders check for any addenda a minimum of forty eight hours in advance of the bid deadline.

At the time of the opening of bids each Bidder will be presumed to have inspected the work and to have read and to be thoroughly familiar with all of the Contract Documents (including all addenda). The failure or omission of any Bidder to receive or examine any form, instruction or document shall in no way relieve any bidder from any obligation in respect to his bid.

If any person contemplating submitting a proposal is in doubt as to the true meaning of any part of these specifications, he may submit a written request for an interpretation to the Purchasing Agent. No interpretations as to the meaning of the plans, specifications or other Contract Documents will be made to any Bidder orally.

Every request for such interpretation should be in writing addressed (duplicate copy) to the Town of Watertown, Purchasing Agent, 61 Echo Lake Road, Watertown, Connecticut 06795, and to be given consideration, must be received at least five (5) days prior to the date fixed for the opening of Bids. Any and all such interpretations and any supplementary instructions will be in the form of written Addenda to the Specifications which, if issued, will be mailed by Registered Mail with Return Receipt Requested to all prospective Bidders at the respective addresses furnished for such purposes, not later than three (3) days prior to the date fixed for the opening of bids. Failure of

any Bidder to receive any such Addendum or interpretations shall not relieve any Bidder from any obligations under his bid as submitted. All Addenda so issued shall become part of the Contract Documents. Oral explanations will not be binding on the Town.

The specifications listed are to be interpreted as meaning the minimum acceptable by the Town of Watertown. Bidders are requested to submit quotations on the basis of these specifications. Alternative bids providing a broader scope and/or services than requested in these specifications may receive consideration providing such equipment and/or service is clearly explained. Any exceptions to the specifications requested herein must be clearly noted in writing and are to be included as a part of the bid proposal. If none are included it will be assumed that there are none.

Definition of the word "complete" means that each unit of the equipment proposed shall include all appurtenances, fasteners, parts, accessories, and services ordinarily catalogued.

An item equal to that named or described in the specifications may be furnished by the Bidder, except where expressly noted as "no substitutions." The naming of any commercial name, trademark, or other identification shall not be construed to exclude any item of any manufacturer not mentioned by name, nor limit competition, but shall establish a standard of equality only. An item shall be considered equal to the item so named or described if:

- It is at least equal in quality, durability, appearance, strength and design.
- It will perform at least equally the function imposed by the design for the work being contracted for or the material being purchased.
- It conforms substantially, even with deviations, to the detailed requirements for the item in the specifications.

The Bidder shall hold the Town of Watertown, its officers, agents, servants, and employees, harmless from liability of any nature or kind because of use of any copyrighted or uncopyrighted compositions, secret process, patented or unpatented inventions, articles or appliances furnished or used under this bid, and agrees to defend, at his own expense, any and all actions brought against the Town of Watertown or himself because of the unauthorized use of such articles.

### *QUOTATION LIMITATION*

Bidders shall offer only **ONE ITEM AND PRICE** for each line item bid. If an or equal item is to be bid, the bidder is to select the brand and model that meets or exceeds the specified item, and submit his bid for that item.

### *ESTIMATE OF WORK*

For bidding purposes, the work has been subdivided into unit price items. The quantities shown are to be considered as approximate only. The Purchasing Agent does not expressly or by implication agree that the actual quantity will correspond therewith, but reserves the right to increase or decrease the amount of any item or portion of the work as deemed necessary.

### *SAMPLES*

Samples of articles, when required shall be furnished free of cost of any sort to the Town of Watertown. Samples received may be retained by the Town for future comparison. Samples which are not destroyed by testing, or which are not retained for future comparison will be returned upon request at the bidder's expense.

### *WITHDRAWAL OF BID*

Bidders may withdraw their proposals at any time prior to the bid date. No agent/broker shall withdraw or cancel their proposal for a period of sixty (60) days after the bid closing date of **11:00 a.m., Wednesday, August 24, 2022**. The successful agent/broker shall not withdraw, cancel or modify their proposal.

### *PERFORMANCE BONDS / PAYMENT BONDS*

A performance bond is required and shall be in the amount of 100% of the bid award, in the name of the "Town of Watertown", in the form and with a surety company approved by the State Commissioner of banking and insurance, and issued within ten (10) calendar days of the bid award date. Surety companies executing Bonds must appear on

the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the State of Connecticut. This financial instrument shall be for the faithful performance of the contract, and shall be used at the sole discretion of the Town of Watertown to pay liquidated Damages for failure or refusal to perform in accordance with the contract. No withdrawals shall be made until after five (5) calendar days notice of noncompliance with the contract is sent by certified U.S. Mail. This in no way limits further actions the Town of Watertown may take.

### *POWER OF ATTORNEY*

Attorneys-in-fact who sign contract bonds must file, with each bond, a certified and effectively dated copy of their power of attorney.

### *EXECUTION OF CONTRACT*

The party to whom the Contract is awarded, or his authorized representative, will be required to attend at the office of the Purchasing Agent of the Town of Watertown, with the sureties offered by him or them, and a current certificate of Corporate good standing issued by the Office of the Secretary of State, in which the corporation is incorporated, and execute the Contract within five (5) days from the date of the award. If the party entering into this contract is a corporation, a Corporate Resolution duly executed by the President and Secretary of the Corporation authorizing the Corporation to enter into this Contract shall be provided. In case of his failure or neglect so to do, the Town may, at its option, determine that the Bidder has abandoned the Contract, and thereupon the Proposal and acceptance shall be null and void, and bid security accompanying the Proposal shall be forfeited as liquidated damages to the Town. If the party entering into this contract is a partnership, a partnership resolution duly executed by a majority of the general partners authorizing the partnership to enter into this contract shall be provided.

### *SUBCONTRACTORS*

- Each bidder contemplating the use of any subcontractor shall submit a list of subcontractors as listed on the Bid Form.
- The apparent low bidder shall file with the Town of Watertown, within five (5) days after the date of bid opening, a complete list of the names and addresses of competent, responsible and qualified subcontractors who are actually to perform major portions of the work. This in no way restricts or limits the requirement that all subcontractors must be approved by the Town.
- Subcontractors listed on the Bid Form or those previously approved may not be changed without the approval of the Town of Watertown.

Local subcontractors, material suppliers, and labor in the Town of Watertown should be considered and sought insofar, as is practical in the performance of this project.

### *QUALIFICATION OF BIDDER*

In determining the qualifications of a bidder, the Town may consider his record in the performance of any contracts for similar work into which he may have previously entered; and the Town expressly reserves the right to reject the bid of such bidder if such record discloses that such bidder, in the opinion of the Town, has not properly performed such contracts or has habitually, and without just cause, neglected the payment of bills or has otherwise disregarded his obligations to subcontractors, suppliers, state or local codes, men or employees of subcontractors.

The Town may make such investigation as he deems necessary to determine the ability of the bidder to perform the work and the bidder shall furnish to the Town all such information and data for this purpose as the Town may request. The Town reserves the right to reject any bid if the evidence submitted by or the investigation of such bidder fails to satisfy the Town that such bidder is properly qualified, or that such bidder misrepresented material facts in the bid documents.

### *DISQUALIFICATION OF BIDDERS*

More than one proposal from an individual, firm, partnership, corporation, or an association under the same or different names will not be considered. Reasonable grounds for believing that any Bidder is interested in more than one proposal for the work contemplated will cause the rejection of all proposals in which such Bidder is interested.

Any or all proposals in which such Bidder is interested will be rejected if there is reason for believing that collusion exists among the Bidders and all participants in such collusion will not be considered in future proposals for the same work. Proposals in which the prices are obviously unbalanced may be rejected. No Contract will be awarded except to competent Bidders capable of performing the class of work contemplated.

### *DELIVERY*

Inasmuch as this work concerns a needed public improvement, the provisions of this bid relating to the time of delivery, performance and completion of the work are of the essence of this bid. Accordingly, the successful bidder shall commence work **upon receipt of the signed Purchase Order** unless the Town shall authorize or direct a further delay. Time of delivery shall be stated as the number of calendar days following receipt of the Purchase Order by the Bidder to receipt of the goods or services by the Town of Watertown. **Work is to be completed by November 9, 2022.**

Prices quoted must include delivery to the Town of Watertown as specified on the Purchase Order. No charges will be allowed for parking, crating, freight, express or cartage unless specifically stated and included in this bid.

Time of delivery may be considered in the award.

### *PAYMENT*

The successful bidder shall execute three (3) copies of the contract agreements. Monthly payments to the Bidder shall be made on ninety-five percent (95%) of the value of work completed, materials and supplies delivered to the site and properly stored. The successful Bidder for this project shall be required to submit a Mechanics Lien Waiver, acceptable to the Town, with each progress payment, and at time of final payment, prior to any payment made.

The Town, after inspection and acceptance of workmanship, and in consideration of the faithful performance by the Bidder of all and singular his covenants, promises, and agreements contained herein, agrees to pay the Bidder for the full completion by him of the work embraced in this Contract, within (30) Thirty Days of the receipt of the final invoice. When subcontractors or suppliers are utilized, the successful Bidder for this project shall be required to submit a Mechanics Lien Waiver, acceptable to the Town, with each progress payment and/or at time of final payment prior to any payment being made.

Time, in connection with any discount offered, will be computed from the date of delivery to the Town or from the date a correct invoice is received by the Town's Finance Department, if the latter date is later than the date of delivery.

Prices will be considered as **NET**, if no cash or payment discount is shown.

The successful bidder shall submit invoices to the following address:

Town of Watertown  
Water and Sewer Authority  
747 French Street  
Oakville, CT 06779

**IT IS UNDERSTOOD AND AGREED THAT SHOULD A BID BE ACCEPTED, IT WILL AUTOMATICALLY BECOME THE CONTRACT OR AN ADDENDUM TO ANY CONTRACT AGREED UPON.**

Notification of the bid award will be made by issuance of a purchase order. Bidders are to list their bids on the appropriate attached sheets. Bidders may attach a letter of explanation. A clear notification should be made on the standard bid sheets at the appropriate point of explanation that there is a letter of explanation attached. All bids must be NET prices.

The successful bidder shall submit an itemized invoice to the Town of Watertown for the work as described herein.

The bidder shall be required to submit a Mechanics Lien Waiver, acceptable to the Town of Watertown, with each



progress payment and at time of final payment prior to any payment being made.

At the time of award the successful bidder shall be required to supply the Town of Watertown a Certificate of Good Standing, certifying that the corporation is in fact a valid corporation and presently licensed to conduct business in the State of Connecticut.

### *SALES TAX*

Certain materials and supplies incorporated in the work of this project are exempt from Connecticut Sales Tax. The Bidder shall familiarize himself with current regulations of the State Tax Department. The tax on materials or supplies exempted by such regulations shall not be included as part of the bid. The Town will furnish the successful Bidder sales tax exemption authorization.

### *CARE AND PROTECTION OF PROPERTY*

The Bidder shall take particular care to avoid damages to all private and public property and to private or public improvements within the Town's right of way. He shall make good any damages to the satisfaction of the Town. There shall be no additional compensation for the repair or restoration of private or public property improvements.

### *COMPLIANCE WITH FEDERAL, STATE AND LOCAL CODES*

The Bidder shall be responsible for full compliance with any Federal, State and/or Local codes, laws, regulations and standards, as applicable-

### *AWARD*

The Town of Watertown reserves the right to accept or reject any bid to best serve its interests, or to hold the bids for sixty (60) days before decision.

The Town reserves the right to reject any and all bids (or any part thereof), to waive defects in proposals, or to accept any proposal deemed to be in its best interest.

**Exceptions will be considered to the specification provided, providing they are listed and fully explained on a separate page entitled "EXCEPTIONS TO SPECIFICATIONS"**

Each exception will be considered as to its degree of impact and total effect on the bid. The purchaser shall determine which (if any taken) exceptions are acceptable, and this determination shall be final.

The Town of Watertown reserves the right:

- To award bids received on the basis of individual items, or groups of items, or on the entire list of items.
- To reject any or all bids, or any part thereof.
- To waive any informality in the bids.
- The Town of Watertown reserves the right to take into account the residency of bidders within the Town of Watertown and/or the location of the bidders business within the Town of Watertown in awarding this bid.
- To accept the bid that is in the best interest of the Town of Watertown. The Purchasing Agent's decision shall be final.

### *INSURANCE*

#### **A. General:**

The Bidder shall be responsible for maintaining insurance coverage in force for the life of the contract of the kinds and adequate amounts to secure all of the Bidder's obligations under the contract with an insurance company with an AM Best Rating of A - VII or better licensed to write such insurance in Connecticut and acceptable to the Town of Watertown.

The insurer shall provide the Town of Watertown with Certificates of Insurance signed by an authorized representative of the insurance company(ies) prior to the performance of this contract describing the coverage and

providing that the insurer shall give the Town of Watertown written notice at least thirty (30) days in advance of any termination, expiration, or any and all change in coverage.

Such insurance or renewals or replacements thereof shall remain in force during the Bidder's responsibility under this agreement.

The Bidder at his own cost and expense shall procure and maintain all insurance required and shall name the Town of Watertown as an additional insured on all contracts except Worker's Compensation and Professional Errors & Omissions coverage.

In order to facilitate this requirement for insurance, it is recommended that the bidder forward a copy of this exhibit to the bidder's insurance representative(s).

B. Specific Requirements:

(1) Workers' Compensation Insurance

The Bidder shall provide Workers' Compensation Insurance required by law and the Employer's Liability Insurance for at least the amounts of liability for Bodily Injury by accident of \$100,000 each accident; Bodily Injury by Disease each employee of \$100,000; Bodily Injury by Disease, policy limit of \$500,000.

(2) Commercial General Liability Insurance

The Bidder shall carry Commercial General Liability policy (Insurance Services Office Incorporated Form CG-0001 or equivalent). A per occurrence limit of \$1,000,000 is required. The Aggregate Limit will be not less than \$1,000,000.

(3) Business Automobile Liability Insurance

The Bidder shall carry Business Automobile Liability Insurance. (Insurance Services Office Incorporated Form CA-00001 or equivalent). A per occurrence limit of \$1,000,000 is required. "Any Auto" (symbol 1 or equivalent) is required.

C. Hold Harmless & Subcontractor's Requirements:

The Bidder shall require the same insurance that it is required to carry by the Town of Watertown to be carried by any subcontractors and independent contractors hired by the Bidder and to obtain Certificates of Insurance before subcontractors and independent contractors are permitted to begin work.

The Bidder shall require that the Town of Watertown be named as Additional Insured on all subcontractor's and independent contractor's policies before they are permitted to begin work.

The Bidder and all subcontractors and independent contractors and their insurers shall waive all rights of subrogation against the Town of Watertown, and its officers, agents, servants and employees for losses arising from the work performed by each on this contract.

The Bidder assumes and agrees to hold harmless, indemnify, protect and defend the Town of Watertown against any and all liability for injuries and damages to Bidder and to Bidder's employees, agents, subcontractors and guests, third parties or otherwise incident to or resulting from any and all operations performed by a contractor under any terms of this contract.

D. Other Data:

NOTE 1: If Bidder is only a vender shipping goods via Common Carrier only, General Liability is required.

NOTE 2: If Bidder is a Professional, Errors & Omission coverage will be required.

NOTE 3: The Town reserves the right to amend amounts of coverage required and the types of coverage provided based on work or service to be performed.



### *GUARANTEE*

The bidder shall unconditionally guarantee for a period of one (1) year from the date of acceptance, all materials, supplies, equipment, and services; including but not limited to its workmanship, delivery and installation. If within the guarantee period there are any defects or signs of deterioration the bidder shall repair, adjust or replace the item(s) to the complete satisfaction of the Town. These repairs, adjustments, or replacements are at the sole expense of the bidder and shall be made at such times that are agreeable to the Purchasing Agent so that it is least detrimental to instructional programs.

### *REPAIRS FOR ONE (1) YEAR*

The bidder's attention is especially directed to the Guarantee Section of the contract whereby two percent (2%) of the Contract amount will be retained for making repairs on the work, as may be required, during the guarantee period of one (1) year after the date of the final estimate.

### *PERMITS*

When required all licenses and permits for complying with any applicable Federal, State, and Municipal laws, codes, regulations in connection with the prosecution of the work shall be obtained by the Bidder, at no additional cost to the Town. The cost of local building permits will be assessed at sixteen cents per one thousand dollars of construction value as declared on the building permit application pursuant to State of Connecticut Statute Sec. 29-263 by the Town of Watertown. The successful contractor will be responsible for payment to the Town of Watertown Building Inspection Department.

### *NONDISCRIMINATION IN EMPLOYMENT*

The successful bidder shall agree and warrant that, in the performance of this contract, he will not discriminate or permit discrimination against any person or group of persons on the grounds of race, color, sex, religion, or national origin in any manner prohibited by State, Federal, County, or Municipal law. A certification of Nonsegregated Facilities and a Certification Regarding Equal Employment Opportunity shall be considered a part of this contract.

### *DISPUTE RESOLUTION*

1. Mandatory Negotiation.  
The parties agree that they will attempt to negotiate in good faith any dispute of any nature arising under this agreement. The parties shall negotiate in good faith at not less than two (2) negotiation sessions prior to seeking any resolution of any dispute by any means under Dispute Resolution provisions contained herein below. Each party shall have the right to legal representation at any such negotiation session.
2. Mandatory Mediation.  
Any dispute or question arising under the provisions of this agreement, which has not been resolved under the mandatory negotiation provision, shall be submitted to non-binding mediation before one (1) mediator agreed upon by the parties or appointed by the American Arbitration Association. Mediation proceedings shall take place at any suitable location in Watertown, Connecticut and shall be conducted in accordance with the rules and procedures of the mediation then applicable of the American Arbitration Association. If an independent mediator is agreed upon by the parties, said independent mediator shall establish the rules of such mediation. Each party shall pay one half of all costs and expenses of such mediation. The parties shall use their best efforts to reach a good faith resolution of said dispute within ninety (90) days after the commencement of the mediation proceedings. Any decision of the mediator shall not be binding upon the parties except by agreement of the parties.
3. Election to Begin Court Proceedings.  
Provided the parties have completed the mandatory negotiation proceedings and the foregoing provisions with respect to mediation notwithstanding, if either party determines that mediation is not an appropriate means to settle any such dispute, such party shall have the right to commence judicial proceedings for the purpose of settling any such dispute.

### *MECHANICS LIEN WAIVERS*

The successful Bidder shall be required to submit a Mechanics Lien Waiver, acceptable to the Town of Watertown, with each progress payment, and/or at time of final payment, prior to any payment made.

### *PRE-BID CONSTRUCTION MEETING*

All bidders are invited to attend a Pre-Bid meeting for the purpose of viewing the proposed scope of services required, and obtaining information relating to the proposed project. The meeting is scheduled for **10:00 a.m., Thursday, August 4, 2022**, at the Water & Sewer Authority Office, 747 French Street, Oakville, CT 06779. No additional viewing appointments will be scheduled. Bidders are not required to attend this scheduled Pre-Bid Meeting; however, this will not relieve any responsibility of the Bidder.

### *OSHA 10 HOUR CERTIFICATION*

Contractor shall provide documentation to verify that all employees working on project have received OSHA 10 Hour certification.

For further technical or administrative information contact Donna Ford, Purchasing Agent via email at [ford@watertownct.org](mailto:ford@watertownct.org).

**DOCUMENTS AND SPECIFICATIONS  
FOR THE  
SANITARY SEWER INSTALLATION  
ON  
OAK DRIVE  
WATERTOWN, CT**

**Prepared by:**

**The Town of Watertown  
Water and Sewer Authority  
747 French Street  
Oakville, CT 06779**

**Date: July, 2022**

## CONTRACT DRAWINGS

00-004-1

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The following Drawings are considered part of these Contract Documents (the Drawings may or may not be physically attached to this document; however, they are legally incorporated into the Contract Document). The Drawings are entitled "Water Main Improvements."

<b><u>NUMBER</u></b>	<b><u>TITLE</u></b>
1 OF 3	Proposed Sanitary Sewer Improvements Oak Drive Watertown, CT Revised: 6/28/22
2 OF 3	Proposed Sanitary Sewer Profile Oak Drive Watertown, CT Revised: 6/28/22
3 OF 3	Sanitary Sewer Details Oak Drive Watertown, CT Revised: 6/28/22

## TECHNICAL SPECIFICATIONS

00-005-1

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<u>SECTION NO.</u>	<u>NAME</u>
02-001	General Requirements for Construction
02-105	Mobilization
02-121	Water Pollution Control (Soil Erosion)
02-122	Sedimentation Control Systems
02-124	Catch Basin Protection
02-150	Maintenance and Protection of Traffic
02-156	Traffic Person
02-205	Rock Excavation
02-207	Borrow
02-220	Excavation
02-250	Bedding and Backfill
02-260	Base and Subbase
02-501	Temporary Trench Patch
02-502	Permanent Paving and Trench Patch
02-555	Sanitary Sewer Construction
02-910	Grass Surface Restoration

## GENERAL REQUIREMENTS FOR CONSTRUCTION

02-001-1

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### **PART 1 - GENERAL**

- A. Throughout various sections of these Specifications, reference is made to "CONNDOT FORM 818" or simply, "Form 818". These terms shall be construed to mean the "State of Connecticut, Department of Transportation, Standard Specifications for Roads, Bridges, and Incidental Construction, Form 818, 2020 as supplemented and amended below. The Contractor shall be familiar with this document and have a copy on the construction site at all times. In Form 818 the words "State", "Department", and other references to the State of Connecticut Department of Transportation shall mean the Owner.
- B. Throughout various sections of these Specifications, reference is made to "ANSI/AWWA Standards". These terms shall be construed to mean the "Standards of the American Water Works Association", latest edition. The Contractor shall be familiar with this document and have a copy on the construction site at all times.
- C. National Fire Protection Association (NFPA) — Throughout various sections of these Specifications, reference is made to "NFPA Standards". These terms shall be construed to mean the "Standards of the National Fire Protection Association", latest edition. The Contractor shall be familiar with this document and have a copy on the construction site at all times.
- D. Prior to commencement of any work, the Owner will coordinate and hold a preconstruction conference to clarify any outstanding issues and to delineate contract performance and administrative procedures. The Contractor must attend this conference. All costs borne by the Contractor in preparing for and attending the preconstruction conference shall be included in the Base Bid.
- E. The Contractor shall furnish to the Owner all design plans certified by a Connecticut Licensed Professional Engineer as required, shop drawings, working drawings, product literature, material samples, test reports, etc., for all construction items and components. Any cost born by the Contractor in preparing submittals shall be included in the bid prices. Each submittal shall be numbered consecutively and shall be submitted to the Owner. The Contractor shall furnish submittals far enough in advance of scheduled installation dates to provide time for review and approvals, possible revisions and resubmittals, ordering product (following approval), and delivery. The Contractor shall submit sufficient copies of submittals for his needs plus two copies to be retained by the Owner.
- F. Before, during, or following construction activities, the Owner (at its own expense) may test any of the various products or materials furnished by the Contractor. The Contractor shall remove and replace, at no expense to the Owner, any construction item

## **GENERAL REQUIREMENTS FOR CONSTRUCTION**

02-001-2

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that does not comply with these Contract Documents. The Contractor shall provide access to any work, complete or in progress, so that the Owner or its designated agents may perform tests properly.

**END OF SECTION**



# MOBILIZATION

02-105-1

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## **PART 1 - GENERAL**

### 1.1 SCOPE OF WORK

- A. Comply with ConnDOT Form 818, Article 9.75.01

### 1.2 REFERENCES

- A. ConnDOT Form 818

### 1.3 SUBMITTALS

- A. None Required

## **PART 2 - PRODUCTS**

### 2.1 MOBILIZATION

- A. No products required.

## **PART 3 - EXECUTION**

### 3.1 MOBILIZATION

- A. Comply with ConnDOT Form 818, Article 9.75.

## **PART 4 - METHOD OF MEASUREMENT**

- A. This item shall be measured individually, under the bid item for “Mobilization”.

## **PART 5 - BASIS OF PAYMENT**

- A. This item shall be paid individually, under the Contractor’s lump sum bid price for “Mobilization”.

END OF SECTION

**PART 1 - GENERAL**

1.1 SCOPE OF WORK

- A. Comply with ConnDOT Form 818, Article 2.10.01. This work shall also include implementation of the project's approved soil erosion and sediment control plan, but shall not include the cost of installing and maintaining certain soil erosion and sediment control measures included in other sections of the technical specifications.

1.2 REFERENCES

- A. ConnDOT Form 818

1.3 SUBMITTALS

- A. None required.

1.4 PROJECT / SITE CONDITIONS

- A. Maintain an on-site copy of any local, state, or federal land-use permits that apply to this project. Adhere to permit conditions, as required.

1.5 SEQUENCING / SCHEDULING

- A. Review the project's approved soil erosion and sediment control plan and review soil erosion and sediment control measures (as installed) with the Inspector prior to commencement of construction items.

**PART 2 - PRODUCTS**

2.1 NONE.

**PART 3 - EXECUTION**

3.1 CONSTRUCTION METHOD

## WATER POLLUTION CONTROL (SOIL EROSION)

02-121-2

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- A. Comply with ConnDOT Form 818, Article 2.10.03.
- B. Comply with the project's approved soil erosion and sediment control plan and any conditions imposed on the project through local, state, and federal land-use permits.

### **PART 4 - METHOD OF MEASUREMENT**

- A. This item shall be measured individually, under the bid item for "Water Pollution Control (Soil Erosion)".

### **PART 5 - BASIS OF PAYMENT**

- A. This item shall be paid for in the Contractor's lump sum bid price for the "Water Pollution Control (Soil Erosion)".

END OF SECTION

**PART 1 - GENERAL**

1.1 SCOPE OF WORK

- A. Comply with ConnDOT Form 818, Article 2.19.01.

1.2 REFERENCES

- A. ConnDOT Form 818

1.3 SUBMITTALS

- A. None required.

**PART 2 - PRODUCTS**

2.1 SEDIMENTATION CONTROL SYSTEMS

- A. Comply with ConnDOT Form 818, Article 2.19.02

**PART 3 - EXECUTION**

3.1 CONSTRUCTION METHOD

- A. Comply with ConnDOT Form 818, Article 2.19.03.

**PART 4 - METHOD OF MEASUREMENT**

- A. This item shall be measured individually, under the bid item for “Sedimentation Control Systems”.

**PART 5 - BASIS OF PAYMENT**

- A. This item shall be paid for in the Contractor’s lump sum bid price for the “Sedimentation Control Systems”.

END OF SECTION

**PART 1 - GENERAL**

1.1 SCOPE OF WORK

- A. Furnish, install, and maintain geotextile grate protection at catch basins as directed on the Contract Drawings.

1.2 REFERENCES

- A. ConnDOT Form 818

1.3 SUBMITTALS

- A. Furnish product literature for geotextile grate protection.

**PART 2 - PRODUCTS**

2.1 GEOTEXTILE

- A. For protection of catch basin grates, use geotextile (filter fabric) conforming to ConnDOT Form 818, Sections 7.55 and M.08.

**PART 3 - EXECUTION**

3.1 CONSTRUCTION METHOD

- A. Wrap catch basin grates with approved geotextile. The Contractor shall check the geotextile weekly and after each rainfall event and remove/replace the fabric once it becomes damaged or clogged.
- B. Upon completion of construction, all storm drainage inlets that were protected by geotextiles shall be cleaned of all sediment.

## CATCH BASIN PROTECTION

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### **PART 4 - METHOD OF MEASUREMENT**

- A. This item shall be measured individually, under the bid item for “Catch Basin Protection”.

### **PART 5 - BASIS OF PAYMENT**

- A. This item shall be paid for in the Contractor’s lump sum bid price for the “Catch Basin Protection”.

END OF SECTION

**PART 1 - GENERAL**

1.1 SCOPE OF WORK

- A. Comply with ConnDOT Form 818, Article 9.71.01.
- B. Apply for and obtain permits for all work within the State roadways. The Contractor shall include the cost of all State required bonds and insurance in the cost of this item.
- C. Maintain existing traffic control devices, traffic loop detectors, wiring and conduits throughout the duration of the contract.

1.2 REFERENCES

- A. ConnDOT Form 818.

1.3 SUBMITTALS

- A. Furnish the Owner with three complete copies of all Town and State permits.
- B. Submit proposed signing plan for traffic control in State roadways, for approval of the Engineer.

1.4 PROJECT / SITE CONDITIONS

- A. Implement various traffic control schemes as necessary to construct the work.

1.5 SEQUENCING

- A. Before commencement of construction:
  - 1. Apply for and acquire a State permit for all work within State rights-of-way.
  - 2. Notify various entities of the impending construction (see Part 3 below).
  - 3. Install all required traffic control signs.
  - 4. Install drums, signs, and cones in immediate vicinity of the work.
  - 5. Make all necessary adjustments of traffic control devices per the direction of the Owner, Engineer.



## MAINTENANCE AND PROTECTION OF TRAFFIC

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- B. Following completion of construction:
1. Remove all construction signs, cones, drums, etc. from the project site.
  2. Repair areas damaged by sign placement or construction activities to pre-construction condition.

### **PART 2 - MATERIALS**

2.1 NONE.

### **PART 3 - EXECUTION**

3.1 CONSTRUCTION METHOD

- A. Comply with ConnDOT Form 818, Article 9.71.03.
- B. Apply for and obtain the permit for all work within State rights-of-way. Include the cost of all State required bonds and insurances in the cost of this item.
- C. Notify the following entities of the commencement and termination of construction at project site:

ENTITY	Telephone Number
Owner	(860) 945-5299
Engineer	(860) 659-3100

### **PART 4 - METHOD OF MEASUREMENT**

- A. All work involved in “Maintenance and Protection of Traffic shall be measured individually, under the bid item “Maintenance and Protection of Traffic”.

### **PART 5 - BASIS OF PAYMENT**

- A. All work involved in the “Maintenance and Protection of Traffic” shall be paid for in the Contractor’s lump sum bid price for the “Maintenance and Protection of Traffic”.

## MAINTENANCE AND PROTECTION OF TRAFFIC

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- B. All work involved in the Maintaining Traffic Control Devices, Traffic Loop Detectors and Associated Infrastructure” shall be paid for in the Contractor’s lump sum bid price for the “Maintain Traffic Control Devices.”

END OF SECTION

**PART 1 – GENERAL**

1.1 SCOPE OF WORK

- A. Use Watertown Police for traffic control.
- B. Use when Watertown Police are unavailable, comply with ConnDOT Form 816, Article 9.70.01, utilizing Connecticut DOT certified traffic control contractors with official vehicles and associated equipment.
- C. Provide certified traffic control personnel for work within Town roadway Right-Of-Ways.
- D. Provide certified traffic control personnel in all other locations where traffic control is required.

1.2 REFERENCES

- A. ConnDOT Form 816

1.3 SUBMITTALS

- A. Submit qualifications of proposed certified traffic control firm, including individuals proposed to be assigned to the project, to the Engineer for review and approval.
- B. Include traffic control firm backup information on invoices in periodic payment requisitions.

1.4 PROJECT/ SITE CONDITIONS

- A. None.

**PART 2 – PRODUCTS**

None required

**PART 3 – EXECUTION**

3.1 CONSTRUCTION METHOD

- A. Furnish certified traffic control personnel for any and all work within Town Right-Of-Ways, when Watertown Police are unavailable.

**PART 4 – METHOD OF MEASUREMENT**

- A. This item will be measured as the actual number of hours for Trafficperson.

**PART 5 – BASIC OF PAYMENT**

- A. Owner will compensate Watertown Police Department directly for police traffic control. When Town of Watertown police are not available, this item will be paid for at the contract unit price for “Trafficperson (Certified Traffic Control Personnel)”

**PART 1 - GENERAL**

1.1 SCOPE OF WORK

- A. Comply with ConnDOT Form 818, Article 2.05.01, as it pertains to the removal of:
- B. Rock in definite ledge formation
- C. Boulders, portions of boulders, cement-masonry structures or concrete structures, each discrete object a minimum of one cubic yard or more in volume.

1.2 REFERENCES

- A. ConnDOT Form 818

1.3 SUBMITTALS

- A. None.

1.4 PROJECT / SITE CONDITIONS

- A. Notify the Inspector immediately when the need for rock-in-trench excavation arises.

1.5 SEQUENCING

- A. Notify the Inspector immediately when the need for rock-in-trench excavation arises.

**PART 2 - PRODUCTS**

2.1 ROCK-IN-TRENCH EXCAVATION

- A. No products required.

**PART 3 - EXECUTION**

3.1 CONSTRUCTION METHOD

## **ROCK EXCAVATION**

02-205-2

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- A. Comply with ConnDOT Form 818, Article 2.05.03.
- B. All rock excavation shall be accomplished by mechanical removal only.

### **PART 4 - METHOD OF MEASUREMENT**

- A. Rock-in-trench excavation shall be measured as the actual volume measured in the field, within the contract limits shown on the plans, and approved by the Engineer.

### **PART 5 - BASIS OF PAYMENT**

- A. Rock-in-trench excavation shall be paid for as the alternate item unit price for “Rock-In-Trench Excavation”.

END OF SECTION

**PART 1 - GENERAL**

1.1 SCOPE OF WORK

- A. Furnish borrow material, as necessary, to replace bedrock, unsuitable soil and/or contaminated soil removed from during construction.
- B. Comply with ConnDOT Form 818, Article 2.18.01.

1.2 REFERENCES

- A. ConnDOT Form 818

1.3 SUBMITTALS

- A. Provide a gradation test from a certified material testing laboratory for a representative sample of borrow material.

1.4 PROJECT / SITE CONDITIONS

- A. Notify the Inspector and Engineer immediately if the need for borrow material arises. Do not import borrow material to replace bedrock or unsuitable soil until the Engineer approves of this item in writing.

1.5 SEQUENCING

- A. Notify the Inspector and Engineer immediately if the need for borrow material arises. Do not import borrow material to replace bedrock or unsuitable soil until the Engineer approves of this item in writing

**PART 2 - PRODUCTS**

2.1 BORROW

- A. Comply with ConnDOT Form 818, Article 2.07.02

## **BORROW**

02-207-2

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### **PART 3 - EXECUTION**

#### 3.1 CONSTRUCTION METHOD

- A. Comply with ConnDOT Form 818, Article 2.07.03.

### **PART 4 - METHOD OF MEASUREMENT**

- A. Borrow shall be measured as the actual volume measured in the field, and approved by the Engineer.

### **PART 5 - BASIS OF PAYMENT**

- A. Borrow shall be paid for as the alternate item unit price for “Borrow”.

END OF SECTION



# EXCAVATION

02-220-1

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## **PART 1 - GENERAL**

### 1.1 SCOPE OF WORK

- A. Provide all labor, tools, materials, equipment and incidentals required to perform the work called for in this Section of the Specifications, including, but not necessarily limited to, the following:
- B. The Contractor shall make all earth excavations and rock excavations, including removal of existing pavements, road base, curbs, walks, and abandoned pipes and structures encountered in the construction of the utilities, services, appurtenances, structures, roadway and the Storm Water Basin as required for the proper completion of the work included under this Contract, and shall dispose of all unsuitable excavated materials as specified herein.
- C. The excavation shall include stripping topsoil, saw cutting of pavements and sidewalks, removal, handling, stockpiling and disposal of any and all materials encountered within the limits of the work, and shall include all pumping, bailing, draining, sheeting, shoring, cofferdamming and protection therefore.

## **PART 2 - SUBMITTALS:**

### 2.1 DESIGN DRAWINGS

- A. Prepare and submit the following design drawings. All design drawings shall be signed and sealed by an engineer registered in the State of Connecticut:
  - 1. Excavation Plan - The excavation plan shall outline the methods and procedures that the Contractor will employ to successfully stabilize excavations, as required to construct the work.
  - 2. Excavation Dewatering Plan - The excavation dewatering plan shall outline the methods and procedures that the Contractor will employ to successfully dewater excavation and dispose of the dewatering wastewater, including measures for erosion control and sediment removal.

### 2.2 MATERIALS:

- A. "Earth" shall consist of all materials, with the exception of rock, removed as indicated or directed from within the excavation limit lines.

## EXCAVATION

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- B. "Rock" shall consist of definite ledge formation, boulders or portions of boulders, cement masonry structures, concrete structures, Portland cement concrete pavement or base, each discrete object a minimum of 1 cubic yard or more in volume, removed as indicated or directed from within the excavation limits.

### **PART 3 - EXECUTION**

#### 3.1 EXECUTION:

- A. Roadway excavation shall conform to Section 2.02 of Form 818. It shall include removal of existing pavement, base and sub-base, portions of driveways including pavement and base, with limits shown on the plans.
- B. Structure excavation shall conform to Section 2.03 of Form 818.
- C. Pavement, driveways, curbs and sidewalks shall be cut as required with a pneumatic tool or saw, removed, and disposed of by the Contractor.
- D. If the bottom of any excavation is taken out beyond the limits indicated or prescribed, the resulting void shall be backfilled at the Contractor's expense with thoroughly compacted, suitable backfill material as described in Section 02-240, Compacted Gravel Fill.
- E. All suitable material removed in making the excavation shall be used for backfill where required. All surplus or unsuitable material shall be removed and disposed of by the Contractor. Suitable material is specified under Section 02-240, Compacted Gravel Fill.
- F. The Contractor shall note that there may be other existing utilities in close proximity to the work. These utilities have been indicated on the drawings, but the completeness or accuracy of the information given is not guaranteed. It is the Contractor's responsibility to make himself aware of these locations and to contact Call-Before-You-Dig prior to any excavation.
- G. As the excavation approaches pipes, conduits or other underground structures, digging by machinery shall be discontinued and the excavation shall be done by means of hand tools. Such manual excavation, when incidental to normal excavation, shall be included in the work to be done under items involving normal excavation.
- H. Where determination of the exact location of pipe or other underground structure is necessary for doing the work properly, the Contractor may be required to excavate test pits to determine such locations, at no extra cost to the Owner.

## EXCAVATION

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- I. Until final acceptance of the work, the Contractor shall pump out, or otherwise remove and dispose of as fast as it may collect, any water or other liquids which may be found or may accumulate in the excavations. Perform this in full conformance with their approved Excavation Dewatering Plan.
  - J. There shall be upon the work at all times during the construction proper and approved machinery of sufficient capacity (including spare units kept ready for immediate use in case of breakdowns) to meet the maximum requirements for the removal of the water or other liquids and their disposal in such a manner as not to withdraw sand or cement from the concrete and so as not to interfere with the proper laying of pipe and/or masonry, or the prosecution of work under this or other contract, nor endanger existing structures.
  - K. All existing walks, pipes, conduits, poles, wires, fences, stairways, curbings, property line markers, walls, buildings and other structures which do not, in the opinion of the Engineer, require to be changed in location, shall be carefully supported and protected from injury by the Contractor without additional compensation, and in case of injury, they shall be restored by him without compensation therefor, to as good condition as that in which they were found.
  - L. Tree roots shall not be mutilated, nor shall they be cut, except by permission of the Engineer. When permitted to cut tree roots, the ends shall be cut off smooth, without splitting or shattering. The trunks of the trees shall be carefully protected from damage, and if unavoidable damage occurs, the injured portions shall be neatly trimmed and covered with an application of grafting wax or other approved preparation. Power driven excavation machinery shall be handled with care to prevent damage to shade trees, particularly to overhanging branches, and branches shall not be cut off except by special permission of the Engineer.
  - M. The Contractor shall, at his own expense, dig up, handle, protect and properly reset hedges, small trees, shrubbery, signs, posts, guard rails, curbing other than bituminous and the like along the line of or adjacent to the work, and shall take all reasonable care in this work not to disturb any object that can be saved in its existing condition.

### **PART 4 - METHOD OF MEASUREMENT**

- A. This item shall not be measured individually, but instead shall be measured as part of the contract unit price for the water main, water service connection, sewer main, sewer lateral, fire hydrant assemblies, etc.

### **PART 5 - BASIS OF PAYMENT**

## **EXCAVATION**

02-220-4

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- A. This item shall not be paid for individually, but instead shall be paid as part of the contract unit price for the water main, water service connection, sewer main, sewer lateral, fire hydrant assemblies, etc.

**END OF SECTION**

## BEDDING AND BACKFILL

02-250-1

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### **PART 1 - GENERAL**

#### 1.1 SCOPE OF WORK

- A. Provide all labor, tools, materials, equipment and incidentals required to perform the work called for in this Section of the Specifications, including, but not necessarily limited to, the following:
- B. Install sand bedding and backfill for water mains.
- C. Install backfill material for trench backfill and other areas as required to produce desired grades.
- D. Install compacted processed aggregate base material as top surface along woods road above water main.

### **PART 2 - MATERIALS**

#### 2.1 WATER MAINS

- A. Sand for pipe bedding and backfill: Comply with ConnDOT Form 818, Article M.08.03.01 – bedding sand, provided that 95% standard proctor compaction under pavement areas can be achieved. For instances of high ground water in the trench, the Engineer may allow No. 6 Stone conforming to M.01.01 in lieu of sand.
- B. Sand shall be the fine granular material naturally produced by the disintegration of rock and shall be sufficiently free of organic material, mica, loam, clay and other deleterious substances. In case visual inspection of the sand indicates that it is too coarse, the following gradation shall determine its acceptability:

SIEVE SIZE	PERCENT PASSING SIEVES
3/8 inch	100
#4	95-100
#8	80-100
#16	50-85
#30	25-60
#50	10-30
#100	2-10

## BEDDING AND BACKFILL

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- C. All imported material used for trench backfill shall conform to Section M.02.01 - Granular Fill, of Form 818.
- D. The nature of the materials will govern both their acceptability for backfill and the methods best suited for their placement and compaction in the backfill. In general, material used for backfilling trenches and excavations around structures shall be suitable material which was removed in the course of making the construction excavations complying with Section M.02.01 – Granular Fill, of Form 818. The source and quality of all materials brought in from off-site must be approved by the Owner, prior to delivery.
- E. No stone or rock fragment larger than 12 inches in greatest dimension shall be placed in the backfill, nor shall large masses of backfill material be dropped into the trench in such a manner as to endanger the pipeline. Pieces of bituminous pavement shall be excluded from the backfill.

### **PART 3 - EXECUTION**

- A. As soon as practicable after the pipes have been laid or the structures have been built and are structurally adequate to support the loads, including construction loads to which they will be subjected, the backfilling shall be started and thereafter it shall proceed until completion.
  - 1. **Zone Around Pipe:** The space between the pipe and bottom side of the trench shall be packed full by hand shovel with sand. In placing the material, care shall be taken that stones do not strike the pipe. The backfill under the pipe shall be thoroughly compacted using curved tamping bars. Sand backfill at the sides and up to the top of the pipe shall be compacted using approved hand tampers. Sand backfill up to a level of 1 foot above the top of the pipe shall be placed in 6-inch layers, leveled along the length and width of the trench, and thoroughly compacted using approved tampers. No sand shall be placed above the top of the pipe until sand under and at the sides of the pipe has been compacted. Care shall be taken in the use of mechanical or other tampers not to injure or move the pipe, or to cause the pipe to be supported unevenly.
  - 2. **Remainder of Trench:** The remainder of the trench above the zone around the pipe may be placed in one layer, provided it is compacted by means of a hoe-pack to achieve a 95% modified proctor density. If a hoe-pack is not used, the backfill shall be spread in layers not exceeding twelve (12) inches in depth prior to compaction. Each layer shall be carefully and thoroughly tamped with approved tools in such a manner as to prevent settlement after the backfill has been completed and to achieve a 95% modified proctor density. Compaction tests (initially to verify proper compaction, then one per 200 feet thereafter, and/or

## **BEDDING AND BACKFILL**

02-250-3

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required by the Inspector) will be required to verify that proper compaction is achieved. Compaction tests will be conducted by the Contractor.

### **PART 4 - METHOD OF MEASUREMENT**

- A. This item, shall not be measured individually, but instead shall be measured as part of the contract unit price for the water main, water service connection, sewer main, sewer lateral connection or fire hydrant assemblies.

### **PART 5 - BASIS OF PAYMENT**

- A. This item shall not be paid for individually, but instead shall be paid as part of the contract unit price for the water main, water service connection, sewer main, sewer lateral connection or fire hydrant assemblies.

END OF SECTION

**PART 1 - SCOPE OF WORK**

Provide all labor, tools, materials, equipment and incidentals required to perform the work called for in this Section of the Specifications, including, but not necessarily limited to, the following:

- A. Preparation of subgrade, and installation of subbase and base materials prior to bituminous concrete construction.
- B. Testing laboratory services during the placement of base and sub-base to insure proper compaction prior to bituminous paving.

**PART 2 - MATERIALS**

- A. "Subbase" material for road trench repair shall conform to Section M.02.02 - Subbase, of Form 818.
- B. "Processed gravel base" material for road trench repair shall conform to Section M.02.03 - Gravel Base, Rolled Bank Gravel Surface and Traffic Bound Gravel Surface, of Form 818.

**PART 3 – EXECUTION**

- A. Just prior to installation, the area shall be thoroughly compacted to subgrade elevations as shown on the plans. Gravel fill shall be added or deleted to accomplish this task, as required. All soft and yielding material, and other portions of the subgrade which will not compact readily, shall be removed and replaced with suitable material.
- B. The road subbase shall be constructed in accordance with Sections 2.12.03 and 3.05 - Construction Methods, of Form 818. Road subbase shall be allowed to settle for a minimum 30 days prior to the placement of Permanent Trench Patch. All areas of settlement shall be brought to grade with road base material, and re- compacted prior to paving.
- C. Testing Laboratory Services- The Contractor shall provide, at no additional cost to the Owner, the services of an approved testing laboratory (ies) to take samples of materials and perform tests as required under this Contract or as ordered by the Engineer. Payment for these services shall be included in the contract unit price for temporary trench patch, and permanent trench patch. Contractor will notify on-call testing service company at least 24 hours in advance for compaction testing. Compaction tests are required on all base materials prior to placing asphalt and on bituminous concrete pavement during rolling operations. A minimum of six (6) satisfactory tests per material per lift are required.



## BASE AND SUBBASE

02-260-2

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### **PART 4 – METHOD OF MEASUREMENT**

- A. This item shall not be measured individually, but instead shall be measured as part of the contract unit price for the permanent trench patch.

### **PART 5 – BASIS OF PAYMENT**

- A. This item shall not be paid for individually, but instead shall be paid as part of the contract unit price for the permanent trench patch.

END OF SECTION

## **PART 1 - GENERAL**

### 1.1 SCOPE OF WORK

- A. The scope of work under this Section includes the placement of roadway subbase, roadway base material, temporary base material, tack coats, and the placement of bituminous pavement within the limits of trench work on town roadways and on other disturbed pavement areas as directed by the Engineer. The work also includes maintenance and repair of the temporary trench patch throughout its service life.

### 1.2 RELATED DOCUMENTS

- A. ConnDOT Form 818.

### 1.3 SUBMITTALS

- A. Submit batch plant certifications for all pavement.
- B. Submit representative gradation test, by a certified material testing laboratory, for processed aggregate base.
- C. Submit weight slips during delivery of pavement.

### 1.4 PROJECT / SITE CONDITIONS

- A. Immediately repair damaged or settled trench patch as directed by the Inspector.

### 1.5 SEQUENCING

- A. Place temporary trench patch over all trench work in paved Town roadways before the conclusion of each day, unless a longer duration is approved by the Owner.
- B. Do not leave any pits in paved highways over night or during any shutdown (weekends, holidays, winter, etc.). Backfill all excavations prior to daily or other shutdowns.
- C. If steel plates are used, add either hot mix bituminous concrete or cold patch on all edges of steel plate.

## TEMPORARY TRENCH PATCH

02-501-2

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### **PART 2 - PRODUCTS**

#### 2.1 TEMPORARY TRENCH PATCH

##### A. Processed Aggregate Base:

1. Comply with ConnDOT Form 818, Section 3.04.02 and M.05.01.

##### B. Tack Coat:

1. Comply with ConnDOT Form 818, Section 4.06.02.

##### C. Bituminous Concrete:

1. Surface Course: Use (Hot Mix Asphalt) HMA S0.5 bituminous concrete. Comply with ConnDOT Form 818, Section 4.06.02.

### **PART 3 - EXECUTION**

#### 3.1 PAVEMENT SAW CUTTING

- ##### A. Saw cut existing pavement throughout the length of all trench work.

#### 3.2 TEMPORARY TRENCH PATCH

##### A. Preparation:

1. Saw cut full depth of existing pavement throughout the length of all trench work.
2. Prepare subgrade prior to placement of temporary pavement. Comply with ConnDOT Form 818, Paragraph 2.09.03.

##### B. Processed Aggregate Base:

1. Comply with ConnDOT Form 818, Section 3.04.03.

##### C. Bituminous Concrete:

1. Place tack coat on all existing bituminous-concrete faces (vertical and horizontal) along the trench work. Comply with ConnDOT Form 818, Section 4.06.03.

## TEMPORARY TRENCH PATCH

02-501-3

2. Place temporary bituminous concrete within the trench limits. Match new trench-pavement grades with existing pavement grades. Comply with ConnDOT Form 818, Section 4.06.03.

### 3.3 MAINTENANCE:

- A. Maintain temporary pavement patch throughout its service life, to the satisfaction of the Engineer and Owner.
- B. Repair or replace any damaged or deteriorated temporary pavement throughout its service life, at the direction of the Engineer and Owner.
- C. Any damaged or deteriorated areas identified by the Owner which are not promptly repaired by the Contractor, which require the Owner to make necessary repairs, will be billed to the Contractor by the Owner.

## **PART 4 - METHOD OF MEASUREMENT**

### 4.1 PAVEMENT SAW CUTTING:

- A. This item will not be measured individually, but shall be included in the square yard measurement for Temporary Trench Patch, approved by the Engineer, and accepted by the Owner.

### 4.2 TEMPORARY TRENCH PATCH – TOWN ROADS

- A. Temporary Trench Patch – shall be measured as the actual number of square yards (SY) of HMA S0.5 bituminous concrete paving constructed in the field, and accepted by the Owner. The cost of all necessary materials and work, including but not limited to the placement of HMA S0.5 bituminous concrete pavement shall be included in the per SY cost of “Temporary Trench Patch”.

### 4.3 TEMPORARY TRENCH PATCH – DRIVEWAYS

- A. Temporary Trench Patch – shall be measured as the actual number of square yards (SY) of HMA S0.375 bituminous concrete paving constructed in the field, and accepted by the Owner. The cost of all necessary materials and work, including but not limited to the placement of HMA S0.375 bituminous concrete pavement shall be included in the per SY cost of “Temporary Trench Patch –Driveways”. Tack Coat:

## TEMPORARY TRENCH PATCH

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### 4.4 PROCESSED AGGREGATE BASE

- A. This item shall not be measured individually, but instead shall be measured as part of the contract unit price for “Permanent Trench Patch”.

## **PART 5 - BASIS OF PAYMENT**

### 5.1 TEMPORARY TRENCH PATCH

- A. Temporary Trench Patch – shall be paid for at the Contract unit price for “Temporary Trench Patch”.

END OF SECTION

**PART 1 - GENERAL**

1.1 SCOPE OF WORK:

- A. Provide all plant, materials, supplies, power, machinery, equipment, tools, superintendence, labor, overhead, profit, insurance, bonds, permits, shop drawings, design services (where required), and other services and accessories required to complete the work of this Section.
- B. The scope of work under this Section includes removal of temporary pavement and base material, saw cutting of existing pavement, bituminous concrete sidewalks, and placement of permanent bituminous-concrete pavement (including tack coats) within the limits of trench work on town roadways, or in new areas designated for pavement on the Drawings.

1.2 RELATED DOCUMENTS

- A. ConnDOT Form 818.

1.3 SUBMITTALS

- A. Submit weight slips during delivery of pavement.
- B. Product Test Data
  - 1. Submit product test data to the Engineer for the following items. All tests shall be conducted by a qualified material testing laboratory and sealed by a licensed professional engineer in the State of Connecticut.
  - 2. Submit batch plant certifications for all pavement types
  - 3. Density test results taken at mixing plant on the day of manufacture.

1.4 PROJECT / SITE CONDITIONS

- A. Immediately repair damaged or settled trench patch on town roadways, as directed by the Inspector or Owner.

1.5 SEQUENCING

## PERMANENT PAVING AND TRENCH PATCH

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- A. Subbase shall be dry prior to the placement of Permanent Pavement.
- B. Permanent paving and trench patch shall take place no sooner than 30 days after the placement of temporary pavement and trench patch.

### **PART 2 - PRODUCTS**

#### 2.1 TACK COAT:

- A. Comply with ConnDOT Form 818, Article 4.06.02

#### 2.2 BITUMINOUS CONCRETE ROADWAY:

- A. Base Course: Use (Hot Mix Asphalt) HMA S0.5. Comply with ConnDOT Form 818, Article 4.06.02 and M.04.
- B. Surface Course: Use (Hot Mix Asphalt) HMA S0.5. Comply with ConnDOT Form 818, Article 4.06.02 and M.04..

### **PART 3 - EXECUTION**

#### 3.1 PAVEMENT SAW CUTTING

- A. Saw cut existing pavement throughout the length of all trench work.

#### 3.2 PREPARATION:

- A. Excavate to final subgrade and dispose of all temporary pavement and surplus material, then prepare final pavement-subgrade prior to placement of permanent trench-patch. Comply with ConnDOT Form 818, Paragraph 2.09.03.
- B. Remove and dispose of temporary pavement and surplus material immediately prior to, and on the same work-day as, placement of permanent trench patch.

#### 3.3 BITUMINOUS CONCRETE:

- A. Place tack coat on all existing bituminous-concrete faces (vertical and horizontal) along the trench work. Comply with ConnDOT Form 818, Article 4.06.03.

## PERMANENT PAVING AND TRENCH PATCH

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- B. Place permanent bituminous concrete within the trench limits. Match new trench-pavement grades with existing pavement grades. Comply with ConnDOT Form 818, Article 4.06.03.

### **PART 4 - METHOD OF MEASUREMENT**

#### 4.1 PERMANENT PAVING AND TRENCH PATCH

- A. This item shall be measured as the actual number of square yards of HMA S0.5 bituminous concrete paving constructed in the field, and accepted by the Owner.

### **PART 5 - BASIS OF PAYMENT**

#### 5.1 PERMANENT PAVING AND TRENCH PATCH

- A. This item shall be paid for at the Contract unit price for “Permanent Paving and Trench Patch”.

END OF SECTION



**PART 1 - GENERAL**

1.1 SCOPE OF WORK

- A. Provide all plant, materials, supplies, power, machinery, equipment, tools, superintendence, labor, overhead, profit, insurance, bonds, permits, shop drawings, design services (where required), and other services and accessories required to complete the work of this Section.
  
- B. To complete the work of this Section, the Contractor shall:
  - 1. Perform trench excavation and backfill, including rock-in-trench excavation, and removal and disposal of existing miscellaneous pipes and other obstructions, existing pavement, curbs, and walks, etc. Comply with ConnDOT Form 818, Article 2.05.01.
  - 2. Perform the design, installation, maintenance, operation, and protection of all pumping, bailing, draining, sheeting, shoring, and cofferdamming facilities necessary to successfully construct the work. The Contractor's dewatering plan shall be consistent with the Owner's environmental permits. Any sheetpiling shall be designed by a Connecticut Licensed Professional Engineer.
  - 3. Perform the removal, handling, protection, and resetting of hedges, small trees, shrubbery, signs posts, guide rails, mail boxes, and the like.
  - 4. Brace of utility poles in close proximity of the excavation.
  - 5. Furnish and install sewer pipe bedding with filter fabric.
  - 6. Furnish and install new gravity sewer main.
  - 7. Furnish and install sewer service laterals.
  - 8. Furnish and install sanitary sewer manholes.
  - 9. Provide by-pass pumping of sewage during sewer lateral construction, if required.
  - 10. Furnish and install sanitary sewer force main.
  - 11. Furnish and install force main cleanout.
  - 12. Furnish and install utility warning tape and tracer wire.
  - 13. Perform vacuum testing of manholes.
  - 14. Perform hydrostatic testing of the force main.
  - 15. Perform low pressure air testing of the gravity sewer main.

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## 1.2 RELATED DOCUMENTS

- A. The publications listed below form a part of this specification to the extent referenced. These publications are referred to in the text by the basic designation only.

<u>Basic Designation</u>	<u>Document</u>
ConnDOT Form 818	State of Connecticut Department of Transportation – Standard Specifications for Roads, Bridges, and Incidental Construction, Form 818, 2020, including all latest revisions and addenda.

## 1.3 SUBMITTALS

- A. Shop Drawings:

1. Prepare and submit shop drawings for the following items:
  - a. Sheeting system, if required
  - b. Shop drawing showing the complete sanitary sewer manhole assembly, including precast manhole base, invert table, risers, cone, joint gaskets, masonry blocks, mortar, manhole frame and cover, manhole-joint seal, and resilient pipe connectors
  - c. Shop drawing of equipment set up and operation for low pressure air testing
  - d. Shop drawing of equipment set up and operation for manhole vacuum testing
  - e. Shop drawing of equipment set up and operation for force main hydrostatic testing

- B. Product Data:

1. Procure and Submit product data for the following items:
2. Product literature for filter fabric
3. Product information for all sewer pipe, joints, fittings, couplings, and gaskets
4. Product information for interior coating of force main receiving manhole
5. Product data for lateral line cleanout.

- C. Samples:

1. Not Applicable

## SANITARY SEWER CONSTRUCTION

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D. Design Drawings:

1. None.

E. Product Test Data

1. Submit product test data to the Engineer for the following items. All tests shall be conducted by a qualified material testing laboratory and sealed by a licensed professional engineer in the State of Connecticut.
2. Gradation test from a certified material testing laboratory for sanitary sewer bedding material

F. Contractor Permits

1. Obtain all necessary permits required by Town of Watertown.

G. Miscellaneous Items

1. Prepare and submit the following miscellaneous items to the Engineer:
  - a. Three copies of gravity line low pressure air test reports indicating compliance with specifications
  - b. Three copies of manhole vacuum test reports indicating compliance with specifications
  - c. Three copies of force main hydrostatic test reports indicating compliance with specifications

### 1.4 PROJECT CONDITIONS

- A. Coordinate all testing with the Owner and Engineer.
- B. If any segment of the sanitary sewer system fails a test, the Contractor shall investigate the cause, implement a solution, and retest the segment until the segment passes the test at no additional cost to the Owner.
- C. No pipe work shall be backfilled unless approved by the Owner or Owner's representative.
- D. Piping: Inspect materials delivered to site for damage; store with minimum of handling. Store materials on or near the site as directed by the Owner, in enclosures or under protective coverings. Store plastic piping and jointing materials and rubber gaskets under cover out of direct sunlight. Do not store materials directly on the ground. Keep inside of pipes and fittings free of dirt and debris.

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- E. Metal Items: Check upon arrival; identify and segregate as to types, functions, and sizes. Store off the ground in a manner affording easy accessibility and not causing excessive rusting or coating with grease or other objectionable materials.
- F. Handling: Handle pipe, fittings, and other accessories in such manner as to ensure delivery to the trench in sound, undamaged condition. Take special care not to damage linings of pipe and fittings; if lining is damaged, make satisfactory repairs. Carry, do not drag, pipe to trench.
- G. Precast concrete: Store materials on platforms or skids. Store materials in a way which ensures that their quality and fitness for the work are preserved, and that the owner or inspector will have prompt and easy access for inspection purposes.
- H. Water for Hydrostatic Test: Coordinate with Owner and/or local water company for water supply for the test.

### 1.5 SEQUENCING

- A. All force main hydrostatic testing, manhole vacuum testing, and gravity line low pressure air testing shall be satisfactorily completed prior to connecting laterals to houses.

## **PART 2 - PRODUCTS**

### 2.1 SANITARY SEWER LINE AND LATERALS

- A. Stone Bedding: Comply with ConnDOT Form 818 Section M.01.01- No. 6 Crushed Stone.
- B. Filter Fabric: Comply with ConnDOT Form 818, Paragraph 7.55.02. Use a Medium Survivability Separation Fabric selected from the ConnDOT Qualified Products List.
- C. PVC Plastic Gravity Sewer Pipe: Conform to ASTM D 3034, SDR 35 with ends suitable for elastomeric gasket joints. Acceptable Manufacturers are: J-M Manufacturing, Scepter, or approved equal.
- D. PVC Plastic Gravity Joints and Jointing Material: Conform to ASTM D 3212. Gaskets shall conform to ASTM F 477.
- E. For non-ferrous pipe provide composite metal warning tape a minimum of six inches wide with an appropriate warning message. Color green. Use Seton Identification Products, New Haven, CT or equal.

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2.2 MANHOLES

- A. Precast concrete manhole concrete manhole risers, base sections and tops: Comply with ASTM C 478. Average concrete strength shall be 4,000 psi at 28 days. Base and first riser shall be monolithic.
- B. Gaskets and Connectors: Gaskets for joints between manhole sections shall conform to ASTM C 990. Resilient connectors for making joints between manhole and pipes entering manhole shall conform to ASTM C 923. Pipe opening seals shall be sized to meet the pipe specified and set at the correct grade and elevation.
- C. Frames, covers and gratings for manholes: Use standard frame and non-vented cover with a 24-inch opening. Items must support HS20-44 loading. Cover shall have the word "Sewer" cast into it.
- D. Manhole Steps: Steps must be 12 inches wide and designed with a minimum concentrated live load of 300 pounds, and must meet one of the following: (a) plastic or rubber coating pressure-molded to the steel may be used. Plastic coating shall conform to ASTM D 4101, copolymer polypropylene. Rubber shall conform to ASTM C 443, except shore A durometer hardness shall be 70 plus or minus 5. (b) Aluminum with portions of step that is embedded in concrete coated with heavy bitumastic mastic. Steps are not required in manholes less than 4 feet deep. All steps shall be cast into walls of the precast section so as to form a continuous ladder with a distance of 12- inches between steps.
- E. Brick shall be new, hard burned, red sewer brick conforming to ASTM specification C32-93. Brick used for inverts and the lower four feet of manholes shall be Grade SM. Brick used for building up and leveling frames shall be grade MS. Grade SS may be used in either application.
- F. Mortar shall meet the requirements of ConnDOT Form 814A, Article M.11.04. Use Type II Portland Cement.
- G. Provide interior and exterior manhole coatings in accordance with approved shop drawings. Apply coatings in accordance with manufacturer's instructions.

2.3 FORCE MAIN

- A. Use AWWA C-900 PVC Pressure Pipe DR 25 meeting the requirements of ASTM D1784 with integral bell joints meeting the requirements of ASTM D3139 and gaskets meeting the requirements of ASTM F477. The color shall be green.

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- B. Thrust restraint at fittings shall be accomplished using EBAA Iron Series 2500 Restraint Harness. Thrust restraint at straight sections shall be accomplished using EBAA Iron Series 1900 Restraint Harness.
- C. Tracer wire shall be AWG #12 Solid with a very heavy molecular high weight polyethylene (HMWPE) insulation as supplied by BMS, Division of Ablestar Corporation of Stoughton, MA. Insulation color shall be green or if green is unavailable, white.

### 2.4 SEWER CONNECTIONS

- A. Material for Standard Sewer Connections shall meet the same requirements as Paragraph 2.01.

### 2.5 LATERAL LINE CLEANOUT

- A. All pipe components shall comply with Paragraph 2.01.
- B. Cleanout cover shall be heavy duty Model H-8011 by D&L Supply or approved equal.
- C. Concrete for collar shall be Class A conforming to ConnDOT Form 817, Article M.03.
- D. Plastic plug shall be an expandable plug operated without tools and shall have a plastic seat to prevent the plug from falling into the cleanout pipe.

### 2.6 MANHOLE VACUUM TESTING

- A. Provide all tools, materials, equipment, plugs, gauges, and supplies required to perform the test.

### 2.7 FORCE MAIN HYDROSTATIC TESTING

- A. Provide all tools, materials, test plugs, caps, pumps, pipe connections, water meter, pressure gauges, and other equipment required to perform pressure and leakage testing in conformance with AWWA Standard C600. Provide all equipment specified by the water company for the water supply.
- B. Provide adequate water for test.

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### 2.8 GRAVITY LINE LOW PRESSURE AIR TESTING

- A. Provide all equipment and materials necessary to conduct the test.
- B. The gage used to measure the drop in pressure shall have a 4-inch diameter face with a scale of 0 to 15 PSI in 0.1 PSI increments, or as approved by the Engineer.

## **PART 3 - EXECUTION**

### 3.1 SANITARY SEWER LINE AND LATERALS

- A. Comply with ConnDOT Form 818, Article 2.05.03
- B. Where existing utilities are to be removed, remove and dispose of existing water mains and valves, miscellaneous pipes, other obstructions, and existing pavement, curbs, and walks, as necessary, to construct the work.
- C. Design, install, maintain, operate and protect all pumping, bailing, draining, sheeting, shoring, and cofferdamming facilities necessary to construct the work. Execution of the dewatering plan shall be consistent with the Owner's environmental permits.
- D. Remove, handle, protect, and reset hedges, small trees, shrubbery, signs, posts, guide rails, mail boxes, and other site improvements, as necessary to construct the work.
- E. Brace utility poles in close proximity to the excavation, as necessary, to construct the work.
- F. Sheeting and Shoring: It shall be the contractor's responsibility to provide such shoring, sheeting, bracing or boxing as is necessary for the safety of the workmen or adjacent property, and for the efficient prosecution of the work. Such sheeting, shoring, bracing, or boxing shall be left in place as is necessary for the proper execution of the work. The contractor shall repair all damage caused by his failure to properly brace his excavations or by removing any such bracing. There will be no payment made for any sheeting, shoring, bracing or boxing. The contractor's attention is called to the jurisdiction of the State Labor Department and the Occupational Safety and Health Act over the adequacy of all shoring and sheeting of trenches.
- G. Removing Sheeting: The removal of sheeting and bracing shall be done in such a manner as to prevent the caving in of the sides of the excavation; and while being withdrawn all holes left by the plank shall be carefully filled and rammed, using sand if material from the spoil bank is unsatisfactory, and puddling with water where material is suitable. Sheeting shall not be completely removed until the backfill has reached

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within 4 feet of the top of the trench. No sheeting extending 8 inches below the bottom of the pipe shall be removed.

- H. Trench Drainage: As far as possible, work shall be done in a dry trench. To this end, provide all necessary pumps, dams, sub-drains, ditches and other means of excluding and removing water from the excavation. The contractor shall convey the water from the works in such a manner as not to cause any nuisance. Particular care shall be taken to avoid undermining any part of the new or any existing works due to the method adopted for the removal and disposal of water.
- I. If utility services to remain are encountered: All structures and services encountered in excavating shall be maintained or repaired as directed by the Engineer, or inspector.
- J. Trenching: Excavation shall generally be in open trenches. Tunneling will be permitted only with the approval of the Engineer and then only in such a manner and under such conditions as he shall specify.
- K. Length Opened: The length of trench opened at any time shall be not more than is reasonably necessary or expedient. In general, no trench shall be opened more than 100 feet ahead of laid pipe. Provide trench crossings as necessary to accommodate public travel and access to private property.
- L. Length Occupied: This work must cause the neighboring and traveling public a minimum of inconvenience. To that end, the contractor shall not occupy more than 400 feet along the line of the pipe at any one section of the work without specific permission from the Engineer. The distance may be reduced at points of serious traffic congestion at the discretion of the Owner. Any equipment or materials resulting from the work, which is outside of these limits, may be removed by the owner or his agent with one day's notice to the contractor and the cost of such removal charged to the Contractor or deducted from payments due the contractor. Where public safety is involved, the Owner may have such material removed without prior notice.
- M. Sanitary Sewer Bedding: Comply with detail drawings for sand bedding and backfill.
- N. Filter Fabric: Comply with ConnDOT Form 818, Paragraph 7.55.03. Place filter fabric above stone bedding across the entire width of the trench.
- O. Soft foundation: Any ground encountered which, in the opinion of the Engineer, is soft or unsuitable for foundation shall be removed and replaced by sand, gravel or crushed stone or Class A concrete as ordered.
- P. Cradle: When ordered by the Inspector or Engineer or when shown in the drawings, pipe shall be supported by concrete cradle as detailed. Concrete shall be Class A mix



and pipe shall be supported as shown until concrete is thoroughly hardened. Concrete shall be spaded or vibrated in place to insure complete support of the pipe.

- Q. Comply with the requirements of ASTM D 2321 for laying and joining pipe and fittings.
- R. Inspect each pipe and fitting before and after installation; replace those found defective and remove from site. Provide proper facilities for lowering sections of pipe into trenches. Lay non-pressure pipe with the bell ends in the upgrade direction. Adjust spigots in bells [and tongue and grooves] to give a uniform space all around. Blocking or wedging between bells and spigots is not be permitted. Replace by one of the proper dimensions, pipe or fittings that do not allow sufficient space for installation of joint material. At the end of each work day, close open ends of pipe temporarily with wood blocks or bulkheads. Provide batterboards not more than 25 feet apart in trenches for checking and ensuring that pipe invert elevations are as indicated. Laser beam method may be used in lieu of batterboards for the same purpose.
- S. Make joints to other pipe materials in accordance with the recommendations of the plastic pipe manufacturer. Joints shall not be pulled or cramped unless permitted by the Engineer.
- T. Where sanitary sewer lines pass above water lines, encase sewer in concrete for a distance of 10 feet on each side of the crossing, or substitute rubber-gasketed pressure pipe for the pipe being used for the same distance. Where sanitary sewer lines pass below water lines, lay pipe so that no joint in the sewer line is closer than 3 feet, horizontal distance, to the water line.
- U. Provide a vertical separation of at least 18 inches between the bottom of the sanitary piping and the top of the water line, unless otherwise shown on the plans.
- V. Install warning tape above all pipes at the depth specified on the Contract Drawings.

### 3.2 MANHOLES

- A. Construct inverts in precast concrete bases using approved sewer brick creating a smooth-surfaced semi-circular bottom conforming to the inside contour of the adjacent sewer sections. For changes in direction of the sewer and entering branches in to the manhole, make a circular curve in the manhole invert of as large a radius as manhole size will permit.
- B. For assembly of precast concrete manhole sections, make joints between manhole sections with the gaskets specified for this purpose; install in the manner specified for

installing joints in concrete piping. Parging is not required for precast concrete manholes.

- C. Make joints between concrete manholes and pipes entering manholes with the resilient connectors specified for this purpose; install in accordance with the recommendations of the connector manufacturer.
- D. Where a new manhole is constructed on an existing line, remove existing pipe as necessary to construct the manhole. Cut existing pipe so that pipe ends are approximately flush with the interior face of manhole wall, but not protruding into the manhole. Use resilient connectors as previously specified for pipe connectors to concrete manholes.
- E. No water piping shall pass through or come in contact with any part of a sanitary sewer manhole. Maintain the separation distances shown on the plans.
- F. Obtain approval from the Engineer before making connection to existing line. Conduct work so that there is minimum interruption of service on existing line.
- G. Perform metal work so that workmanship and finish will be equal to the best practice in modern structural shops and foundries. Form iron to shape and size with sharp lines and angles. Shear and punch metal work so that clean true lines and surfaces are produced. Make castings sound and free from warp, cold shuts, and blow holes that may impair their strength or appearance. Give exposed surfaces a smooth finish with sharp well-defined lines and arises. Provide necessary rabbets, lugs, and brackets wherever necessary for fitting and support.
- H. After installation of metal work, clean cast-iron frames, covers, gratings, and steps not buried in concrete to bare metal or mortar, rust, grease, dirt, and other deleterious materials and apply a coat of bituminous paint. Do not paint surfaces subject to abrasion.

### 3.3 FORCE MAIN

- A. Comply with AWWA C605.
- B. Comply with pipe manufacturer's written installation instructions.
- C. Install thrust restraint at all bends and tees. Install thrust restraint on all pipe joints within 30 feet of a bend.
- D. Install warning tape and tracer wire above pipe as shown on the Contract Drawings.

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### 3.4 SEWER CONNECTIONS

- A. Comply with Paragraph 3.01 with for installation.
- B. For Type 2 Connection, support riser pipe directly on existing ground or well compacted Gravel.
- C. For Type 3 Connection install concrete chimney in accordance with manufacturer's installation instructions.

### 3.5 LATERAL LINE CLEANOUT

- A. Comply with Paragraph 3.01 with for installation.
- B. Bring riser to just below finished grade and install expandable plug, cleanout cover, and concrete collar. Concrete collar shall be flush with the ground surface and have a smooth finish.

### 3.6 MANHOLE VACUUM TESTING

- A. Plug all lift holes, pipes, and other penetrations prior to performing the test.
- B. Securely brace all pipes, plugs, and seals.
- C. Mount the test apparatus to the top of the concrete surface.
- D. Draw a vacuum of 10 inches of mercury (Hg).
- E. After reaching 10 inches of mercury, measure the drop in vacuum after two minutes. If the drop is less than one inch, the manhole has passed the test.
- F. If the manhole fails the test, the Contractor shall locate the leak(s), seal the leak(s), and retest. This shall be repeated until the manhole passes the test. The Contractor shall perform additional tests and repairs at no additional cost to the Owner.

### 3.7 FORCE MAIN HYDROSTATIC TESTING

- A. Conduct pressure and leakage testing on all new sanitary sewer force mains completed under this contract. Comply with AWWA Standard C600. Perform pressure testing and leakage test at 1.5 times the maximum system pressure or 100 psi, whichever is greater (based on the elevation of the lowest point of the section under test and corrected to gage location).

- B. If blow-offs are not available for releasing air, excavate at high points, tap the main, and install a plug for air release. Install plug and backfill the excavation following successful completion of the test.
- C. If the section shall fail to pass the pressure and leakage test, locate, uncover, retest and repair or replace the defective pipe, fitting or joint, all at no cost to the Owner and without extension of time for completion of the work. Make additional tests and repairs until the section passes the specified tests.
- D. Dispose of all test water in accordance with local, state, and federal regulations. Obtain all required permits prior to the start of the test process.

3.8 GRAVITY LINE LOW PRESSURE AIR TESTING

- A. The Contractor shall determine the elevation of the ground water table in the area of the pipeline being subjected to the low-pressure air test in a manner approved by the Engineer. The groundwater table shall be assumed to be at the ground surface unless the contractor can demonstrate otherwise.
- B. After cleaning and flushing the line, plugs will be installed in the pipeline being subjected to the low-pressure air test and braced as necessary to secure the plugs in place.
- C. Utilizing the approved equipment, air at low pressure shall be slowly introduced into the pipeline until the pressure within the pipeline being tested increases to 4 PSIG greater than the back pressure exerted by the ground water table over the pipe being tested, (back pressure = 1 PSIG per 2.31 feet of water) as determined above (if the water table is not at a level above the pipe, the test pressure should be brought up to 4 PSIG). Allow at least 2 minutes to elapse prior to starting the test. If necessary, allow a small amount of air to slowly enter the pipeline in order to maintain a pressure of 4 PSIG above the back pressure due to the water table, or 4 PSIG if there is no back pressure to compensate for.
- D. Disconnect the supply air hose from the source of air and allow the air pressure within the pipe being tested to drop to 3.5 PSIG above the back pressure due to the existing ground water table. At this point, start measuring the time for the pressure in the pipeline to drop 1 PSIG.
- E. The time required to drop 1 PSIG shall not be less than that indicated in Table 1 for the size and length of pipeline being tested. If the time is less than that indicated in Table 1, the pipeline will be considered to have failed the test (See Table 1).

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- F. Any Section of the sewer line which fails to meet this test will be repaired or replaced as necessary by the Contractor, and retested at no additional expense to the Owner.
- G. The Contractor will be responsible for all costs and delays incurred due to efforts to locate and repair any leaks in any sewer line which fails the low-pressure air test, regardless of whether the failure is due to workmanship, material failure, the result of an improperly installed or braced end cap; or any sewer line damaged due to failure to provide a properly sized and operable safety valve or pressure relief device, on the testing equipment for protection of the pipeline being tested. No sewer line will be considered acceptable until it successfully passes the requirements of this test unless the requirement is waived by the Engineer or Inspector.
- H. All testing will be conducted by the Contractor or his approved subcontractor in the presence of the Owner's Inspector. The Contractor or his subcontractor shall keep a written record which will show the results of the tests conducted. These records should include sufficient data on length of line, pressure levels, time for pressure drop and related features noted during the testing of each segment of the line. A copy of these records shall be given to the Owner.

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**TABLE 1**

MINIMUM TIME REQUIRED FOR A PRESSURE DROP OF 1 PSIG AS REQUIRED IN  
LOW PRESSURE

AIR TEST SPECIFICATION - MINUTES:SECONDS

(BASED ON 0.0015 CFM/SQ.FT.)

Pipe Diameter (in.)	Specification Time for Length (L) Shown (min:sec)								
	100 ft.	150 ft.	200 ft.	250 ft.	300 ft.	350 ft.	400 ft.	450 ft.	500 ft.
4	3:46	3:46	3:46	3:46	3:46	3:46	3:46	3:46	3:47
6	5:40	5:40	5:40	5:50	5:40	5:40	5:42	6:24	7:07
8	7:34	7:34	7:34	7:34	7:36	8:52	10:08	11:24	12:40
10	9:26	9:26	9:26	9:53	11:52	13:51	15:49	17:48	19:47
12	11:20	11:20	11:24	14:15	17:05	19:56	22:47	25:38	28:29
15	14:10	14:10	17:48	22:15	26:42	31:09	35:36	40:04	45:51
18	17:00	19:13	25:38	32:03	38:27	44:52	51:16	57:41	64:06
21	19:50	26:10	34:54	43:37	52:21	61:00	69:48	78:31	87:15
24	22:47	34:11	45:34	56:58	68:22	79:46	91:10	102:33	113:58

**Note:** If lateral sewers are included in the test, their lengths may generally be ignored in computing required test times. In the event a test section, having a total internal surface area less than 625 square feet, fails to pass the air test when lateral sewers have been ignored, the engineer shall recompute the test time to include all lateral sewers.

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**PART 4 - METHOD OF MEASUREMENT**

4.1 GRAVITY SEWER MAIN

- A. Measurement: The various responsibilities, products and services described in Parts 1, 2, and 3 of this specification, as they relate to the work of this Item, will not be measured for payment. All costs associated with the work of this Item shall be included in the Contract Unit Price for each gravity sewer pipe size installed, as part of “Gravity Sewer Main”. The work of this item will be measured for payment by the actual number of linear feet of Gravity Sewer Line measured from outside face of manhole to outside face of manhole, completed by Contractor and accepted by Owner.

4.2 SEWER MANHOLE.

- A. Measurement: The various responsibilities, products and services described in Parts 1, 2, and 3 of this specification, as they relate to the work of this Item, will not be measured for payment. All costs associated with the work of this Item shall be included in the Contract Unit Price for “Sewer Manhole”. The work of this item will be measured for payment by the actual number of manholes of completed by Contractor and accepted by Owner.

4.3 FORCE MAIN CLEANOUT SEWER MANHOLE

- A. Measurement: The various responsibilities, products and services described in Parts 1, 2, and 3 of this specification, as they relate to the work of this Item, will not be measured for payment. All costs associated with the work of this Item shall be included in the Contract Unit Price for “Force Main Cleanout Sewer Manhole”. The work of this item will be measured for payment by the actual number of Force Main Cleanout Sewer Manholes completed by Contractor and accepted by Owner.

4.4 FORCE MAIN

- A. Measurement: The various responsibilities, products and services described in Parts 1, 2, and 3 of this specification, as they relate to the work of this Item, will not be measured for payment. All costs associated with the work of this Item shall be included in the Contract Unit Price for “2” PVC Force Main Sewer Line”. The work of this item will be measured for payment by the actual number of linear feet of “2” PVC Force Main Sewer Line” completed by Contractor and accepted by Owner. The force main length will be measured from the outside face of the valve vault to the outside face of the receiving manhole.

## SANITARY SEWER CONSTRUCTION

02-555-16

### 4.5 GRAVITY SEWER LATERAL CONNECTION

- A. Measurement: The various responsibilities, products and services described in Parts 1, 2, and 3 of this specification, as they relate to the work of this Item, will not be measured for payment. All costs associated with the work of this Item shall be included in the Contract Unit Price for “Gravity Sewer Lateral Connection”. The work of this item will be measured for payment by the actual linear feet of “Gravity Sewer Lateral Connections” completed by Contractor and accepted by Owner.

### 4.6 SANITARY SEWER LATERAL, 2” PVC FORCE MAIN AND 6” PVC GRAVITY MAIN.

- A. Measurement: The various responsibilities, products and services described in Parts 1, 2, and 3 of this specification, as they relate to the work of this Item, will not be measured for payment. All costs associated with the work of this Item shall be included in the Contract Unit Price for “ 2” Force Main Sanitary Sewer Lateral”, or “ 6” Grvity Sanitary Sewer Lateral” The work of this item will be measured for payment by the actual number of linear feet of “Sanitary Sewer Lateral” completed by Contractor and accepted by Owner.
- B. The 2” shut off valves and check valves installed at the property line on 2” PVC force main sanitary sewer laterals will be measured as part of the linear feet of piping completed by Contractor and accepted by Owner.

## **PART 5 - BASIS OF PAYMENT**

### 5.1 GRAVITY SEWER LINE

- A. Payment: This Item shall be paid for at the Contract Unit Price, for the gravity sewer pipe size installed. The Contract Unit Price shall include all materials, equipment, tools, and labor incidental to construction of this Item, including the low pressure air test.

### 5.2 SEWER MANHOLE

- A. Payment:, This Item shall be paid for at the Contract Unit Price for “Sewer Manhole”.. The Contract Unit Price shall include all materials, equipment, tools, and labor incidental to construction of this Item including Manhole Vacuum Testing, and interior piping, valves and fittings inside these manholes.



## SANITARY SEWER CONSTRUCTION

02-555-17

### 5.3 FORCE MAIN CLEANOUT SEWER MANHOLE

Measurement: The various responsibilities, products and services described in Parts 1, 2, and 3 of this specification, as they relate to the work of this Item, will not be measured for payment. All costs associated with the work of this Item shall be included in the Contract Unit Price for “Force Main Cleanout Sewer Manhole”. The work of this item will be measured for payment by the actual number of Force Main Cleanout Sewer Manholes completed by Contractor and accepted by Owner.

### 5.4 SEWER FORCE MAIN

- A. Payment: This Item shall be paid for at the Contract Unit Price for “2” PVC Force Main Sewer Line”. The Contract Unit Price shall include all materials, equipment, tools, and labor incidental to construction of this Item including hydrostatic testing.

### 5.5 GRAVITY SEWER CONNECTION

- A. Payment: This Item shall be paid for at the Contract Unit Price for “Gravity Sewer Connections”. The Contract Unit Price shall include all materials, equipment, tools, and labor incidental to construction of this Item.

### 5.6 2” PVC FORCE MAIN SEWER LATERAL CONNECTION

- A. This Item shall be paid for at the Contract Unit Price for “2” Force Main Sanitary Sewer Lateral Connection” . The Contract Unit Price shall include all materials, equipment, tools, and labor incidental to construction of this Item.

<b>Pay Item</b>	<b>Pay Unit</b>
8” Gravity Sewer Line	LF
2” PVC Sewer Force Main	LF
Sewer Manhole	EA
Force Main Cleanout Sewer Manhole	EA
Gravity Sewer Lateral Connection	LF
2” PVC Force Main Lateral Connection	LF

END OF SECTION

## **PART 1 - GENERAL**

### 1.1 SCOPE OF WORK:

- A. The scope of work in this Section includes the following items:
  - 1. Furnish and place topsoil in areas designated on the Contract Drawings. Comply with ConnDOT Form 818, Article 9.44.01.
  - 2. Establish turf in areas designated in the Contract Drawings. Comply with ConnDOT Form 818, Article 9.50.01. Erosion control matting is not required.

### 1.2 RELATED DOCUMENTS

- A. ConnDOT Form 818.

### 1.3 SUBMITTALS

- A. Material certification for topsoil.
- B. Material certifications for grass seed, lime, fertilizer, and mulch.

### 1.4 PROJECT / SITE CONDITIONS

- A. No special conditions apply.

### 1.5 SEQUENCING

- A. Regrade areas disturbed by construction activities and establish turf immediately upon completion of subsurface construction.

## **PART 2 - PRODUCTS**

### 2.1 GRASS SURFACE RESTORATION

- A. Topsoil: Comply with ConnDOT Form 818, Article 9.44.02.
- B. Turf Establishment: Comply with ConnDOT Form 818, Article 9.50.02.

### **PART 3 - EXECUTION**

#### 3.1 GRASS SURFACE RESTORATION:

- A. Topsoil: Comply with ConnDOT Form 8 Article 9.44.03.
- B. Turf Establishment: Comply with ConnDOT Form 818, Article 9.50.03.

### **PART 4 - METHOD OF MEASUREMENT**

#### 4.1 GRASS SURFACE RESTORATION

- A. This item shall be measured as the actual square yard finished surface area that has developed sufficient seed germination and turf establishment, as determined by the Engineer, in accordance with the limits shown on the Contract Drawings and Specifications.

### **PART 5 - BASIS OF PAYMENT**

#### 5.1 GRASS SURFACE RESTORATION

- A. This item shall be paid for at the Contract unit price for “Grass Surface Restoration”

END OF SECTION



**Item # 7 – 8” PVC Gravity Sewer Mains**

The unit price of

\_\_\_\_\_ Dollars  
And \_\_\_\_\_ Cents  
(\$ \_\_\_\_\_) per \_\_\_\_\_ 100 LF \$ \_\_\_\_\_

**Item # 8 – 6” Gravity Sewer Lateral**

The unit price of

\_\_\_\_\_ Dollars  
And \_\_\_\_\_ Cents  
(\$ \_\_\_\_\_) per \_\_\_\_\_ 30 LF \$ \_\_\_\_\_

**Item # 9 – 2” PVC Force Main**

The unit price of

\_\_\_\_\_ Dollars  
And \_\_\_\_\_ Cents  
(\$ \_\_\_\_\_) per \_\_\_\_\_ 260 LF \$ \_\_\_\_\_

**Item # 10 – 2” PVC Force Main - Lateral**

The unit price of

\_\_\_\_\_ Dollars  
And \_\_\_\_\_ Cents  
(\$ \_\_\_\_\_) per \_\_\_\_\_ 80 LF \$ \_\_\_\_\_

**Item # 11 – Sewer Manhole**

The unit price of

\_\_\_\_\_ Dollars  
And \_\_\_\_\_ Cents  
(\$ \_\_\_\_\_) per \_\_\_\_\_ 1 EA \$ \_\_\_\_\_

**Item # 12 – Force Main Cleanout Sewer Manhole**

The unit price of

\_\_\_\_\_ Dollars  
And \_\_\_\_\_ Cents  
(\$ \_\_\_\_\_) per \_\_\_\_\_ 1 EA \$ \_\_\_\_\_



**PLEASE**

**IT IS A REQUIREMENT OF  
THIS BID THAT EACH  
PROPOSAL SUBMITTED  
MUST HAVE A DUPLICATE  
COPY ATTACHED.**

**YOUR COOPERATION IS  
APPRECIATED**

Payment Terms \_\_\_\_\_

Time to Completion \_\_\_\_\_ Working Days

Warranty \_\_\_\_\_

Have you taken any exceptions or have you deviated from our printed specification and if so, are such suggested changes clearly noted on the page provided for exceptions to specifications?

yes

no





**RECEIPT OF ADDENDA**

**ADDENDUM #**

**SIGNATURE**

**DATE**

- |    |       |             |
|----|-------|-------------|
| 1. | _____ | ___/___/___ |
| 2. | _____ | ___/___/___ |
| 3. | _____ | ___/___/___ |
| 4. | _____ | ___/___/___ |

NAME OF BIDDER: \_\_\_\_\_

OFFICIAL ADDRESS: \_\_\_\_\_

PHONE NUMBER: \_\_\_\_\_

BY: \_\_\_\_\_ TITLE: \_\_\_\_\_  
(Please Print)

DATE: \_\_\_\_\_

SIGNATURE: \_\_\_\_\_

**PROPOSED SUBCONTRACTORS**

FIRM \_\_\_\_\_  
Name  
\_\_\_\_\_  
Street  
\_\_\_\_\_  
City State Zip Code

CONTACT \_\_\_\_\_ TELEPHONE \_\_\_\_\_  
Please Print  
TYPE OF WORK TO BE PERFORMED \_\_\_\_\_

.....

FIRM \_\_\_\_\_  
Name  
\_\_\_\_\_  
Street  
\_\_\_\_\_  
City State Zip Code

CONTACT \_\_\_\_\_ TELEPHONE \_\_\_\_\_  
Please Print  
TYPE OF WORK TO BE PERFORMED \_\_\_\_\_

.....

FIRM \_\_\_\_\_  
Name  
\_\_\_\_\_  
Street  
\_\_\_\_\_  
City State Zip Code

CONTACT \_\_\_\_\_ TELEPHONE \_\_\_\_\_  
Please Print  
TYPE OF WORK TO BE PERFORMED \_\_\_\_\_

\_\_\_\_\_

**REFERENCES**

**The Bidder is required to fill out the following form to enable the Owner to make inquiries and judgment as to the Bidder's experience, skill, available financial resources, credit and business standing.**

1. Number of years the Bidder has been in business as a Contractor: \_\_\_\_\_.

2. List three (3) projects of similar in nature to the project described herein that the Bidder has completed along with the approximate construction cost. Include the name, address and telephone number of a reference for each project.

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3. List projects presently under construction by the Bidder, dollar volume of the Contract and percent completed.

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4. Has the Bidder ever failed to complete work awarded to him; and if so, state where and why.

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5. Does the Bidder plan to sublet any part of this work; and if so, give details.

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6. List equipment the Bidder owns that is available for this project.

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7. List equipment the Bidder plans to rent or purchase for this project.

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8. If the Bidder has worked under the direction of a Consulting Engineer, list recent projects with the name, address and telephone number of the Consultant.

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9. List name, address and telephone number for the following:

Surety: \_\_\_\_\_

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Bank:

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Major Material  
Supplier:

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**PERFORMANCE BOND**

KNOW ALL MEN BY THESE PRESENTS: that

\_\_\_\_\_  
(Name of Contractor)

\_\_\_\_\_  
(Address of Contractor)

a \_\_\_\_\_, hereinafter called Principal and  
(Corporation, Partnership, or Individual)

\_\_\_\_\_  
(Name of Surety)

\_\_\_\_\_  
(Address of Surety)

hereinafter called Surety, are held and firmly bound unto

\_\_\_\_\_  
(Name of Owner)

\_\_\_\_\_  
(Address of Owner)

hereinafter called OWNER, in the penal sum of \_\_\_\_\_ Dollars,  
\$(\_\_\_\_\_) in lawful money of the United States, for the payment of which sum well and truly to be made, we bind ourselves, successors, and assigns, jointly and severally, firmly by these presents.

**THE CONDITION OF THIS OBLIGATION** is such that whereas, the Principal entered into a certain contract with the OWNER, dated the \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, a copy of which is hereto attached and made a part hereof for the construction of:

\_\_\_\_\_  
\_\_\_\_\_

**NOW, THEREFORE**, if the Principal shall well, truly and faithfully perform its duties, all the undertakings, covenants, terms, conditions, and agreements of said contract during the original term thereof, and any extensions thereof which may be granted by the OWNER, with or without notice to the Surety and during the one year guaranty period, and if he shall satisfy all claims and demands incurred under such contract, and shall fully indemnify and save harmless the OWNER from all costs and damages which it may suffer by reason of failure to do so, and shall reimburse and repay the OWNER all outlay and expense which the OWNER may incur in making good any default, then this obligation shall be void; otherwise to remain in full force and effect.

**PROVIDED, FURTHER**, that the said surety, for value received hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the contract or to WORK to be performed thereunder or the SPECIFICATIONS accompanying the same shall in any wise affect its obligation on this BOND, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the contract or to the WORK or to the SPECIFICATIONS.

**PROVIDED, FURTHER**, that no final settlement between the OWNER and the CONTRACTOR shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

**IN WITNESS WHEREOF**, this instrument is executed in \_\_\_\_ counterparts each one of which shall be deemed an original, this \_\_\_\_ day of \_\_\_\_\_, 20\_\_.

ATTEST:

\_\_\_\_\_  
Principal

\_\_\_\_\_  
(Principal) Secretary  
(SEAL)

By \_\_\_\_\_(s)

\_\_\_\_\_  
(Witness as to Principal)

\_\_\_\_\_  
(Address)

\_\_\_\_\_  
(Address)

\_\_\_\_\_

ATTEST:

\_\_\_\_\_  
Surety

\_\_\_\_\_  
(Surety) Secretary  
(SEAL)

By \_\_\_\_\_  
Attorney-in-Fact

\_\_\_\_\_  
(Witness as to Surety)

\_\_\_\_\_  
(Address)

\_\_\_\_\_  
(Address)

NOTE: Date of BOND must not be prior to date of Contract.

If CONTRACTOR is Partnership, all partners should execute BOND

IMPORTANT: Surety companies executing BONDS must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the state where the PROJECT is located.



**PAYMENT BOND**

KNOW ALL MEN BY THESE PRESENTS: that

\_\_\_\_\_  
(Name of Contractor)

\_\_\_\_\_  
(Address of Contractor)

a \_\_\_\_\_, hereinafter called Principal and  
(Corporation, Partnership, or Individual)

\_\_\_\_\_  
(Name of Surety)

\_\_\_\_\_  
(Address of Surety)

hereinafter called Surety, are held and firmly bound unto

\_\_\_\_\_  
(Name of Owner)

\_\_\_\_\_  
(Address of Owner)

hereinafter called OWNER, in the penal sum of \_\_\_\_\_ Dollars,  
\$(\_\_\_\_\_) in lawful money of the United States, for the payment of which sum well and truly to be  
made, we bind ourselves, successors, and assigns, jointly and severally, firmly by these presents.

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for the construction of:

\_\_\_\_\_  
\_\_\_\_\_

NOW, THEREFORE, if the Principal shall well, truly and faithfully perform its duties, all the undertakings,  
covenants, terms, conditions, and agreements of said contract during the original term thereof, and any extensions  
thereof which may be granted by the OWNER, with or without notice to the Surety and during the one year guaranty  
period, and if he shall satisfy all claims and demands incurred under such contract, and shall fully indemnify and  
save harmless the OWNER from all costs and damages which it may suffer by reason of failure to do so, and shall  
reimburse and repay the OWNER all outlay and expense which the OWNER may incur in making good any default,  
then this obligation shall be void; otherwise to remain in full force and effect.

PROVIDED, FURTHER, that the said surety, for value received hereby stipulates and agrees that no change,  
extension of time, alteration or addition to the terms of the contract or to WORK to be performed thereunder or the  
SPECIFICATIONS accompanying the same shall in any wise affect its obligation on this BOND, and it does hereby  
waive notice of any such change, extension of time, alteration or addition to the terms of the contract or to the  
WORK or to the SPECIFICATIONS.

PROVIDED, FURTHER, that no final settlement between the OWNER and the CONTRACTOR shall abridge the  
right of any beneficiary hereunder, whose claim may be unsatisfied.

IN WITNESS WHEREOF, this instrument is executed in \_\_\_\_ counterparts each one of which shall be deemed an original, this \_\_\_\_ day of \_\_\_\_\_, 20\_\_.

ATTEST:

\_\_\_\_\_  
Principal

\_\_\_\_\_  
(Principal) Secretary  
(SEAL)

By \_\_\_\_\_(s)

\_\_\_\_\_  
(Address)

\_\_\_\_\_  
(Witness as to Principal)

\_\_\_\_\_

\_\_\_\_\_  
(Address)

ATTEST:

\_\_\_\_\_  
Surety

\_\_\_\_\_  
(Surety) Secretary  
(SEAL)

By \_\_\_\_\_  
Attorney-in-Fact

\_\_\_\_\_  
(Witness as to Surety)

\_\_\_\_\_  
(Address)

\_\_\_\_\_  
(Address)

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